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AERODYNAMIC RESULTS OF SUPPORT SYSTEM  
INTERFERENCE EFFECTS TESTS CONDUCTED IN NASA/ARC 6-  
BY 6-FOOT SUPERSONIC WIND TUNNEL USING AN 0.015-SCALE  
MODEL OF THE CONFIGURATION 140A/B SSV ORBITER (0A59)

VOLUME I

By

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By

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ABSTRACT

An experimental aerodynamic investigation (OA59) was conducted in the NASA/ARC 6- by 6-Foot Supersonic Wind Tunnel from 13 through 22 March 1974. The test article was an 0.015-scale Configuration 140A/B SSV Orbiter model (49-0). The primary objective of this investigation was to determine the extent aerodynamic simulation is compromised by sting base mounting with MPS nozzles removed.

Both a conventional sting (through the base) and an alternate model mounting system were utilized. The alternate mounting system consisted of a non-metric blade strut, which approximated the vertical tail and entered the model through the upper aft section of its fuselage. The model was tested both in and out of the presence of a dummy sting with and without MPS nozzles when on the alternate mounting system. Data were obtained at Mach numbers from 0.6 through 2.0, a Reynolds number of 2.5 million per foot, angles of attack from -4 through 14 degrees, angles of sideslip from -15 through 15 degrees, elevon deflections of 0 and 15 degrees, and bodyflap deflections of -11.7, 0, and 16.3 degrees.

This report is published in two volumes. Volume I contains Data Figures 4 through 9. Volume II contains Data Figures 10 through 15 and the Tabulated Source Data.

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## PLOT SCHEDULES

- A) CL, CD, CA, CLMFWD, CLMAFT vs ALPHA, CN CL vs CLMFWD, CL vs CD
- B) CNT, CMTFWD, CMTAFT vs ALPHA, CNT, CLT vs CMTFWD, CLT vs CDT, CDF, CAF, CAB vs ALPHA
- C) CAV, CNV, CMVFW, CMVFT vs ALPHA
- D) CLT, CLV, CL, CDB, CDB vs CD, CDF, CDT vs MACH
- E) CMTFWD, CMVFW, CLMFWD, CMTAFT, CMVAFT, CLMAFT, CNT, CNV, CN vs MACH
- F) CAB, CAV, CA, CAF, CAT vs MACH
- G) DCLT, DCLV, DCL, DCDS, DCDV, DCD, DCDF, DCDT vs ALPHA
- H) DCMTFW, DCMVFW, DCMFW, DCMTAF, DCMVAF, DCMFT, DCNT, DCNV, DCN vs ALPHA
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- L) CBL, CYN, CY vs BETA
- M) DCBL, DCYN, DCY vs BETA

NOMENCLATURE  
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$a$		speed of sound; m/sec, ft/sec
$C_p$	CP	pressure coefficient; $(p_1 - p_\infty)/q$
$M$	MACH	Mach number; $V/a$
$p$		pressure; $N/m^2$ , psf
$q$	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$ , $N/m^2$ , psf
$RN/L$	RN/L	unit Reynolds number; per m, per ft
$V$		velocity; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\phi$	PHI	angle of roll, degrees
$\rho$		mass density; $kg/m^3$ , slugs/ft <sup>3</sup>

Reference & C.G. Definitions

$A_b$		base area; $m^2$ , $ft^2$
$b$	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\bar{l}_{REF}$ $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
$S$	SREF	wing area or reference area; $m^2$ , $ft^2$
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
$\infty$	free stream

# NOMENCLATURE (Continued)

## Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$C_N$	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
$C_A$	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
$C_Y$	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_{AF}$	CAF	forebody axial force coefficient, $C_A - C_{Ab}$
$C_m$	CTM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
$C_n$	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
$C_l$	CTL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

## Stability-Axis System

$C_L$	CL	lift coefficient; $\frac{\text{lift}}{qS}$
$C_D$	CD	drag coefficient; $\frac{\text{drag}}{qS}$
$C_Y$	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_m$	CTM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
$C_n$	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
$C_l$	CCL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; $C_L/C_D$
L/D <sub>F</sub>	L/DF	lift to forebody drag ratio; $C_L/C_{DF}$



NOMENCLATURE (Continued)  
(Additions to Standard List)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
BOR		body of revolution
$C_{D_V}$	CDV	vertical tail base drag coefficient
$C_{L_V}$	CLV	vertical tail base lift coefficient
$C_{m_V}$	CMVFWD	forward vertical tail base pitching-moment coefficient
$C_{N_V}$	CNV	vertical tail base normal-force coefficient
$C_{A_V}$	CAV	vertical tail base axial-force coefficient
$\Delta C_D$	DCD	balance incremental tare drag coefficient
$\Delta C_L$	DCL	balance incremental tare lift coefficient
$\Delta C_{m_f}$	DCMFWD	balance forward incremental tare pitching-moment coefficient
$\Delta C_N$	DCN	balance incremental tare normal-force coefficient
$\Delta C_A$	DCA	balance incremental tare axial-force coefficient
$\Delta C_Y$	DCY	balance incremental tare side-force coefficient
$\Delta C_{\ell}$	DCBL	balance incremental tare rolling-moment coefficient
$\Delta C_n$	DCYN	balance incremental tare yawing-moment coefficient
$C_{p_{V1}}$	CPV1	base pressure coefficient on upper speed brake portion
$C_{p_{V2}}$	CPV2	base pressure coefficient on lower speed brake portion
$C_{p_{V3}}$	CPV3	base pressure coefficient on lower vertical tail portion
XV1		longitudinal distance from $0.65 \ell_B$ to centroid of area containing $C_{p_{V1}}$

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
XV2		longitudinal distance from 0.65 $\ell_B$ to centroid of area containing $C_{pV2}$
XV3		longitudinal distance from 0.65 $\ell_B$ to centroid of area containing $C_{pV3}$
ZV1		vertical distance from 375" W.L. to centroid of area containing $C_{pV1}$
ZV2		vertical distance from 375" W.L. to centroid of area containing $C_{pV2}$
ZV3		vertical distance from 375" W.L. to centroid of area containing $C_{pV3}$
A <sub>V1</sub>		area associated with pressure coefficient $C_{pV1}$
A <sub>V2</sub>		area associated with pressure coefficient $C_{pV2}$
A <sub>V3</sub>		area associated with pressure coefficient $C_{pV3}$
$C_{pB(i)}$		body base-pressure coefficient from body base orifice $P_{B1,2,\dots}$
$C_{pC1}$		strut cavity-pressure coefficient from strut cavity orifice $P_{C1}$
$C_{pC2}$		sting cavity-pressure coefficient from sting cavity orifice $P_{C2}$
$C_{pAi}$		fuselage afterbody pressure coefficient
$X_0$		Orbiter fuselage station, inches
$Y_0$		Orbiter butt plane, inches
A <sub>Bi</sub>		base area assigned to $i^{th}$ pressure, in <sup>2</sup>

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{A_b}$	CAB	model-body base axial-force coefficient
$C_{D_f}$	CDF	total forebody drag force coefficient
$C_{D_b}$	CDB	model body base drag-force coefficient
$C_{m_f}$	CLMFWD	balance forward pitching-moment coefficient at $0.65 \ell_B$
$C_{m_a}$	CLMAFT	balance aft pitching-moment coefficient at 0.675
$C_{m_{t_f}}$	CMTFWD	forward total pitching moment coefficient
$C_{m_{t_a}}$	CMTAFT	aft total pitching moment coefficient
$C_{m_{V_f}}$	CMVAFT	aft vertical tail base pitching moment coefficient
$C_{L_t}$	CLT	total lift-force coefficient
$C_{D_t}$	CDT	total drag-force coefficient
$C_{N_t}$	CNT	total normal-force coefficient
$C_{A_f}$	CAF	total forebody axial-force coefficient
$C_{A_t}$	CAT	total axial-force coefficient
$\Delta C_{L_t}$	DCLT	incremental total lift-force coefficient
$\Delta C_{L_V}$	DCLV	incremental vertical tail base lift force coefficient
$\Delta C_{D_b}$	DCDB	incremental model body base drag force coefficient

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$\Delta C_{D_V}$	DCDV	incremental vertical tail base drag force coefficient
$\Delta C_{D_f}$	DCDF	incremental total forebody drag force coefficient
$\Delta C_{D_t}$	DCDT	incremental total drag force coefficient
$\Delta C_{m_{t_f}}$	DCMTFW	incremental total forward pitching moment coefficient
$\Delta C_{m_{V_f}}$	DCMVFW	incremental forward vertical tail pitching moment coefficient
$\Delta C_{m_{t_a}}$	DCMTAF	incremental total aft pitching moment coefficient
$\Delta C_{m_{V_f}}$	DCMVAF	incremental aft vertical tail base pitching moment coefficient
$\Delta C_{m_a}$	DCMAFT	incremental balance aft pitching moment coefficient
$\Delta C_{N_t}$	DCNT	incremental total normal force coefficient
$\Delta C_{N_V}$	DCNV	incremental vertical tail base normal-force coefficient
$\Delta C_{A_t}$	DCAT	incremental total axial force coefficient
$\Delta C_{A_V}$	DCAV	incremental vertical tail base axial-force coefficient
$\Delta C_{A_b}$	DCAB	incremental model-body base axial-force coefficient
$\Delta C_{A_f}$	DCAF	incremental total forebody axial-force coefficient
$\delta_{bf}$	BDFLAP	bodyflap deflection angle, positive trailing edge down, degrees

# NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$\delta_e$	ELEVON	elevon surface deflection angle, positive trailing edge down, degrees
$\Lambda_u$		sweepback angle of the speedbrake trailing edge, degrees
$\Lambda_L$		sweepback angle of lower part of the vertical tail, degrees
$\delta_{sb}$	SPDBRK	speedbrake deflection angle, degrees

## CONFIGURATIONS INVESTIGATED

Two support systems were tested. One was a Rockwell supplied blade-strut support which enters through the top of the model near the base, replacing the vertical tail as shown in figure 2b. The strut simulated the vertical tail (with a 24.92 degree speedbrake flare) to the extent that its span and profile closely matched. Because of stress considerations cross sections at various spanwise stations could not be matched. See figures 2d and 2e for comparisons. A (non-metric) dummy sting was located (via a stringer from the Ames sting which supports the blade-strut) in close proximity to the base. It simulated the first 20 inches of exposed sting downstream of the model base which exists for the case where the model is base mounted. Refer to figure 2a.

Control surface deflections tested were:

elevon: 0°, 15°

bodyflap: -11.7°, 0°, 16.3°

speedbrake: 24.92°

rudder: 0°

The basic Orbiter configurations are as follows:

$$O_{11A} = B_{26} C_9 E_{37} F_7 M_7 N_{24} N_{28} R_5 V_8 W_{116}, \text{ where}$$

<u>Component</u>	<u>Definition</u>
B <sub>26</sub>	Fuselage: forebody per Rockwell lines VL70-000143B; mid-body per lines -000200, -000205 and -006089; aft body per lines -000145, (Model drawing SS-A00147, Release 12)
C <sub>9</sub>	Canopy per Rockwell lines VL70-000143B (Model drawing SS-A00147, Release 12)

# CONFIGURATIONS INVESTIGATED (Concluded)

- E<sub>37</sub> Alternate slotted elevons per Rockwell lines VL70-000200, -006089, -006092 and figure 4A of SAS/AERO/76-643, dated October 31, 1973 (Model drawing SS-A00147, Release 6).
- F<sub>7</sub> Body flap per Rockwell lines VL70-000145 (Model drawing SS-A00147, Release 12)
- M<sub>7</sub> OMS/RCS pods per Rockwell lines VL70-000145 (Model drawing SS-A00147, Release 12)
- N<sub>24</sub> MPS nozzles; contour per measurements made on Rockwell configuration control drawing VL70-0050030A; location per configuration control drawing VL70-000140A (Model drawing SS-A00147, Release 12)
- N<sub>28</sub> OMS nozzles: contour per model drawing SS-A00106, release 5; location per Rockwell configuration control drawing VL70-000140A (Model drawing SS-A00147, Release 12)
- R<sub>5</sub> Rudder per Rockwell lines VL70-000146A (Model drawing SS-A00148, Release 6)
- V<sub>8</sub> Vertical tail per Rockwell lines VL70-000146A (Model drawing SS-A00148, Release 6)
- W<sub>116</sub> Wing per Rockwell lines VL70-000200, -006089, and -006092 (Model drawing SS-A00148, Release 6)

## INSTRUMENTATION

The Orbiter was mounted on the NASA/ARC 1.5-inch diameter Task MKIIE internal strain gage balance. The balance center was located at model station  $X_0 = 15.989$ ,  $Y_0 = 0.0$ , and  $Z_0 = 5.85$  inches.

A NASA/ARC dangleometer recorded BOR pitch angle. Predetermined sting deflection rates (due to load) were added to these to determine model  $\alpha$  and  $\beta$ .

When the model was base mounted on the straight sting, there were five (5) base, two (2) cavity, two (2) top surface, and three (3) vertical tail trailing edge pressure orifices. All taps, except the cavity pressure, were built into the model skin with 0.043-inch O.D. stubs at the model base. The same number of pressure taps were used for both base mounted and blade strut model installations.



## TEST FACILITY DESCRIPTION

The 6- by 6-Foot Wind Tunnel of the NASA Ames Research Center is a closed-circuit, variable pressure facility. The test section has a slo floor and ceiling, allowing for continuous operation from Mach number 0 to 2.20 at stagnation pressures from 0.3 to 1.0 atmosphere for a stagnation temperature of 560°R. These conditions allow Reynolds number variation from 1 to 5 million per foot and a dynamic pressure range from 200 to 1 pounds per square foot.

# DATA REDUCTION

Standard NASA/ARC data reduction techniques were used with the following reference dimensions:

$A_C$	sting cavity area	0.0341 ft <sup>2</sup>
$b$	reference wing span	1.171 ft
$\bar{c}$	reference M.A.C.	0.5935 ft
$L_B$	reference body length	1.613 ft
$S$	reference wing area	0.6053 ft <sup>2</sup>
XMRP	longitudinal distance, model nose OML to moment reference center	12.6255 in
YMRP	lateral distance, plane of symmetry to moment reference center	0.0 in
ZMRP	vertical distance, FRP to moment reference center	-0.375 in

Fuselage and vertical tail base force coefficients were computed as follows:

$$C_{A_B} = - \sum_{i=1}^5 \frac{A_{Bi} C_{P_{Bi}}}{S} - \frac{A_c C_{P_c}}{S}$$

$C_{A_B}$  = base axial-force coefficient

$$C_{A_V} = - \frac{\cos \Lambda_u}{S} (A_{V1} C_{P_{V1}} + A_{V2} C_{P_{V2}}) - \frac{\cos \Lambda_L}{S} A_{V3} C_{P_{V3}}$$

$C_{A_V}$  = vertical tail base axial-force coefficient

$$C_{N_V} = \frac{\sin \Lambda_u}{S} (A_{V1} C_{P_{V1}} + A_{V2} C_{P_{V2}}) + \frac{\sin \Lambda_L}{S} (A_{V3} C_{P_{V3}})$$

# DATA REDUCTION (Continued)

$C_{N_V}$  = vertical tail base normal-force coefficient

$$C_{m_V 0.65 \lambda_B} = - [A_{V1} C_{P_{V1}} (Z_{V1} \cos \Lambda_u + X_{V1} \sin \Lambda_u) + A_{V2} C_{P_{V2}} (Z_{V2} \cos \Lambda_u + X_{V2} \sin \Lambda_u) + A_{V3} C_{P_{V3}} (Z_{V3} \cos \Lambda_L + X_{V3} \sin \Lambda_L)] / \bar{c} S$$

where:

full - scale values

Symbol	Dimensions	All $\delta_{SB}$	$\delta_{SB} = 25^\circ$	$\delta_{SB} = 55^\circ$	$\delta_{SB} =$
$A_{V1}$	ft <sup>2</sup>		24.2	50.4	82.
$A_{V2}$	ft <sup>2</sup>		32.3	67.4	109.
$A_{V3}$	ft <sup>2</sup>		19.77	19.77	19.
$A_{B1}$	ft	48.0			
$A_{B2}$	ft	89.3			
$A_{B3}$	ft	45.9			
$A_{B4}$	ft	78.2			
$A_{B5}$	ft	12.4			
$A_{C2}$	in <sup>2</sup>	151.56			
$X_{V1}$	in	581.1			
$X_{V2}$	in	531.9			
$X_{V3}$	in	432.2			
$Z_{V1}$	in	351.0			
$Z_{V2}$	in	251.1			
$Z_{V3}$	in	165.7			
$\Lambda_u$	deg.	26° 15'			
$\Lambda_L$	deg.	63° 51'			

DATA REDUCTION (Concluded)

$$CDV = CAV \cos \alpha + CNV \sin \alpha$$

$$CLV = CNV \cos \alpha - CAV \sin \alpha$$

$$CMVAFT = CMVFWD + (0.675 - 0.65) (l_B) CNV/\bar{c}$$

$$CLMAFT = CLMFWD + (0.675 - 0.65) (l_B) CN/\bar{c}$$

$$CDT = CD + CDV$$

$$CLT = CL + CLV$$

$$CAT = CA + CAV$$

$$CNT = CN + CNV$$

$$CMTFWD = CLMFWD + CMVFWD$$

$$CMTAFT = CLMAFT + CMVAFT$$

$$CAF = CAT - CAB$$

$$CDF = CAF \cos \alpha + CNT \sin \alpha$$

$$CDB = CDT - CDF$$

TABLE I.

[illegible]

TABLE II.

TEST : OA 59			DATA SET/RUN NUMBER COLLATION SUMMARY														DATE : POST TEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		A	B	$\delta_e$	$\delta_{\theta}$		0.6	0.7	0.75	0.8	0.85	0.9	0.95	1.2	1.5	2.0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467

**TABLE II. (Concluded)**

[illegible]

## TABLE III. - MODEL DIMENSIONAL DATA

\*REVISED 4/24/74

MODEL COMPONENT: Body (B26)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter FuselageNOTE: B<sub>26</sub> identical to B<sub>24</sub> except underside of fuselage refaired to accept W<sub>116</sub>.Model Scale = 0.015Model Drawing No. SS-A00147DRAWING NUMBER:VL70-000193VL70-000140A , VL70-000140BDIMENSIONS:FULL-SCALEMODEL SCALELength (Body Fwd Sta  $X_0 = 235$ ) - in.1293.319.400\* Max. Width (at  $X_0 = 1528.3$ ) - In.264.03.960Max. Depth (at  $X_0 = 1464$ ) - in.250.03.75

Fineness Ratio

0.263570.26357Area - ft<sup>2</sup>

Max. Cross-Sectional

340.88462.07670

Planform

Wetted

Base



TABLE III. - Continued.

\*REVISED 4 24 74

MODEL COMPONENT: Canopy (C<sub>9</sub>)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Fuselage

Model Drawing No. SS-A00147

Model Scale = 0.015

DRAWING NUMBER VL70-000140A  
VL70-000143A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
* Length ( $X_0=434.643$ to 578)	<u>143.357</u>	<u>2.150</u>
Max Width (@ $X_0=513.127$ )	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0=485.0$ )	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area		
Max Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

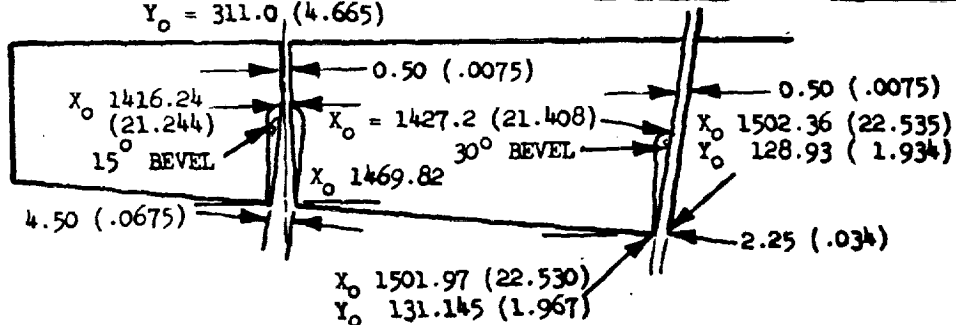
TABLE III. - Continued.

\*REVISED 4/24/74

MODEL COMPONENT: ALTERNATE SLOTTED ELEVON - E<sub>37</sub>GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevon.E<sub>37</sub> is a slotted version of E<sub>26</sub>. Data is for one side.MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12DRAWING NUMBER: VL70-000200, -006089, -006092 and  
Fig. 4A of SAS/AERO/76-643

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>10.056</u>	<u>10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
* Area Moment (Product of Area & $\bar{c}$ ) Ft <sup>3</sup>	<u>1587.25</u>	<u>0.00536</u>
* Mean Aerodynamic Chord - In.	<u>90.7</u>	<u>1.361</u>

$$Y_o = 311.0 (4.665)$$



MODEL COMPONENT: Body Flap (F7)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Body FlapNOTE: Body flap has variable centerline deflection of  $+13.75^\circ$  and  $-14.25^\circ$  from null position. Hinge line located at  $X_0 = 1528.3$ , $Z_0 = 284.3$ Model Drawing No. SS-A00147Model Scale = 0.015

DRAWING NUMBER

VL70-000140A, VL70-000145DIMENSION:FULL SCALEMODEL SCALELength ( $X_0 = 1520$  to  $X_0 = 1613$ ) - IN.93.0001.395

Max Width - IN.

262.0003.930Max Depth ( $X_0 = 1520$ ) - IN.23.0000.345

Fineness Ratio

Area -  $\text{Ft}^2$ 

Max Cross-Sectional

Planform

150.5250.0339

Wetted

Base

41.84722.00941

TABLE III. - Continued.

MODEL COMPONENT: OMS Pod (M<sub>7</sub>)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140AVL70-000145DIMENSION:FULL SCALEMODEL SCALELength (OMS Fwd Sta  $X_0=1233.0$ ) - IN.327.0004.905Max Width (@  $X_0=1450.0$ ) - IN.94.51.418Max Depth (@  $X_0=1493.0$ ) - IN.109.0001.635

Fineness Ratio

Area

Max Cross-Sectional

Planform

Wetted

Base

TABLE III. - Continued.

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: MPS NOZZLES - N<sub>24</sub>GENERAL DESCRIPTION: Configuration 140A/B Orbiter MPS NozzlesMODEL SCALE: 0.015MODEL DRAWING: SS-A00147, RELEASE 12DRAWING NUMBER: VL70-005030A, VL70-000140A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>2.355</u>
Throat to Exit Plane	<u>99.2</u>	<u>1.488</u>
Diameter - In.		
Exit	<u>91.000</u>	<u>1.410</u>
Throat		
Inlet		
Area - ft <sup>2</sup>		
Exit	<u>45.16585</u>	<u>0.0102</u>
Throat		
Gimbal Point (Station) - In.		
Upper Nozzle		
X	<u>1445.0</u>	<u>21.675</u>
Y	<u>0.0</u>	<u>0.0</u>
Z	<u>443.0</u>	<u>6.645</u>
Lower Nozzles		
X	<u>1468.16996</u>	<u>22.023</u>
Y	<u>53.0000</u>	<u>0.795</u>
Z	<u>342.63988</u>	<u>5.140</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16°</u>	<u>16°</u>
Yaw	<u>0°</u>	<u>0°</u>
Lower Nozzle		
Pitch	<u>10°</u>	<u>10°</u>
Yaw	<u>3.5°</u>	<u>3.5°</u>

TABLE III. - Continued.

COMPONENT: OMS Nozzle (N<sub>2</sub>g)AL DESCRIPTION: Configuration 140 A/B Orbiter OMS NozzleSCALE = .015Model Drawing No. SS-A00147NG NO. VL70-000140ASIONSFULL SCALEMODEL SCALE

Mach No. \_\_\_\_\_

Length ~ in.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter ~ in.

Exit

Throat

Inlet

Area ~ ft<sup>2</sup>.

Exit

Throat

Gimbal Point (station) ~ in.

X

1518.022.77

Y

+ 88.01.32

Z

492.0 -7.38

Wall Position ~ deg.

Pitch

15° 49'15° 49'

Yaw (Outboard)

12° 17'12° 17'

## TABLE III. - Continued.

\*REVISED 4/24/74

MODEL COMPONENT: Rudder (R<sub>5</sub>)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Rudder

Model Scale = 0.015

Model Drawing No. SS-A00148

DRAWING NUMBER:

VL70-000095, VL70-000146ADIMENSIONS:FULL-SCALEMODEL SCALE\* Area - FT<sup>2</sup>100.150.0225

Span (equivalent) - IN.

201.03.015

Inb'd equivalent chord

91.5851.374

Outb'd equivalent chord

50.8330.762Ratio movable surface chord/  
total surface chord

At Inb'd equiv. chord

0.4000.400

At Outb'd equiv. chord

0.4000.400

Sweep Back Angles, degrees

Leading Edge

34.8334.83

Tailing Edge

26.2526.25

Hingeline

34.8334.83\* Area Moment (Product of Area &  $\bar{C}$ ) - FT<sup>3</sup>610.92.0021

\* Product of Area and Mean Chord - In.

73.21.098

\*REVISED 4/24/74

MODEL COMPONENT: Vertical Tail (V8)RAL DESCRIPTION: Configuration 140 A/B Orbiter Vertical TailNOTE: Similar to V5 with radius on TE upper corner and LE lower corner  
where vertical meets fuselage.

Model Scale = 0.015

Model Drawing No. SS-A00148

ING NUMBER:

VL70-000140A

VL70-000146A

NSIONS:

FULL-SCALEMODEL SCALEOTAL DATA

Area (Theo) Ft <sup>2</sup>	413.253	0.09298
Planform		
Span (Theo) In	315.720	4.73580
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.40399	0.40399
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
*Trailing Edge	26.2	26.2
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	4.02750
Tip (Theo) WP	108.470	1.62705
MAC	199.80756	2.99711
Fus. Sta. of .25 MAC	1463.50	21.95250
W. P. of .25 MAC	635.522	9.53283
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.00	10.00
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius (Min) - IN.	2.00	0.0300
Void Area	13.17	0.00296
Blanketed Area	0.00	0.00



TABLE III. - Concluded.

\*REVISED 4/24/74

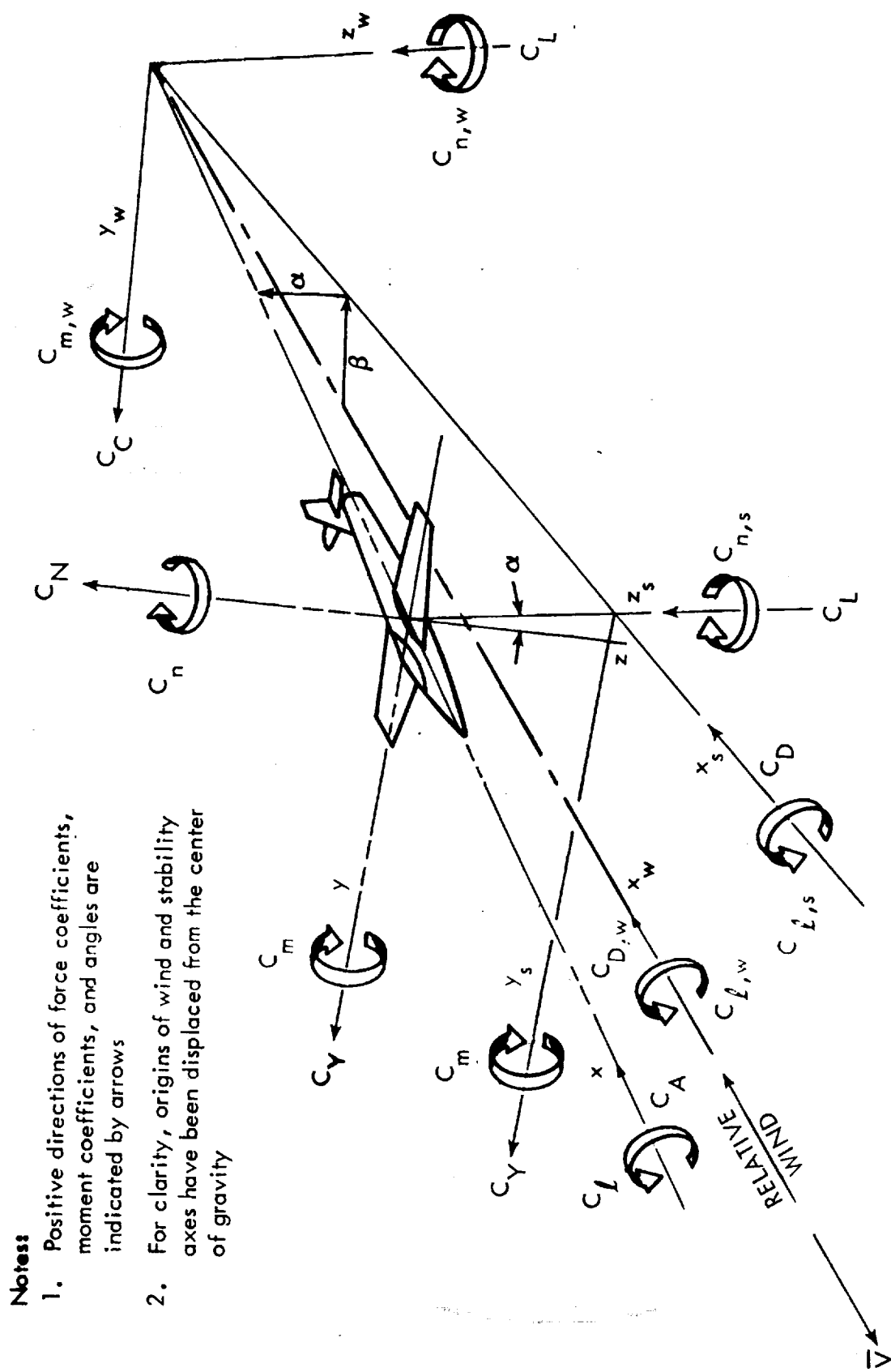
MODEL COMPONENT: <u>WING-W<sub>116</sub></u>		
GENERAL DESCRIPTION: <u>Configuration 140A/B Orbiter Wing</u>		
NOTE: Identical to W <sub>114</sub> except airfoil thickness. Dihedral angle is along trailing edge of wing.		
MODEL SCALE: 0.015	MODEL DRAWING NO. SS-A00148 VL70-000140B	
TEST NO.	DWG. NO. VL70-000200	
<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo.) Ft <sup>2</sup>		
Planform	2690.00	0.6053
Span (Theo) In.	936.6816	14.050
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+ 3.000	+ 3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	10.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.2429	10.339
Tip, (Theo) B.P.	187.8486	2.068
MAC	474.8117	7.122
Fus. Sta. of .25 MAC	1126.83	16.902
W.P. of .25 MAC	290.58	4.359
B.L. of .25 MAC	182.13	2.732
<u>EXPOSED DATA</u>		
Area (Theo) Ft <sup>2</sup>	1751.50	0.3941
Span, (Theo) In. BP108	720.68	10.810
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	8.431
Tip 1.00 b 2	137.85	2.06
MAC	392.83	5.892
Fus. Sta. of .25 MAC	1185.98	17.790
W.P. of .25 MAC	294.30	4.415
B.L. of .25 MAC	251.77	3.777
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root b = 2	0.113	0.113
Tip b = 2	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff 2		
Planform Area Ft <sup>2</sup>	113.18	0.0255
Leading Edge Intersects Fus M. L. @ Sta	500.00	7.500
Leading Edge Intersects Wing @ Sta	1024.00	15.360

TABLE IV. DATASET COMBINATIONS USED TO OBTAIN INCREMENTAL DATA

RESULTING DATASET	MINUEND DATASET	SUBTRAHEND DATASET	RESULTING DATA	$\alpha$	$\delta_e$	$\delta_{BF}$
Q,S,T,U,V,W,R012 3 4 5 6 ↓ 1ER018	RER001 RER003 RER005 RER006 RER007 RER008	RER012 RER013 RER014 RER015 RER016 RER018	Nozzle increment + sting interference tare ↓	Vary Vary Vary Vary Vary 10	0 15 0 0 0 0	-11.7 -11.7 16.3 0 -11.7 -11.7
Q,S,T,U,V,W,R009 1ER010 1ER011	RER001 RER007 RER008	RER009 RER010 RER011	Sting interference tare ↓	Vary 0 10	0 0 0	-11.7 -11.7 -11.7
1,2,3ER019 20 22 23 ↓ 1ER024	RER019,12 RER020,13 RER022,15 RER023,14 RER024,18	RER001 RER003 RER006 RER005 RER008	Sting mounted nozzle-off data with corrections applied ↓	Vary Vary Vary Vary 10	0 15 0 0 0	-11.7 -11.7 0 16.3 -11.7

NOTE:

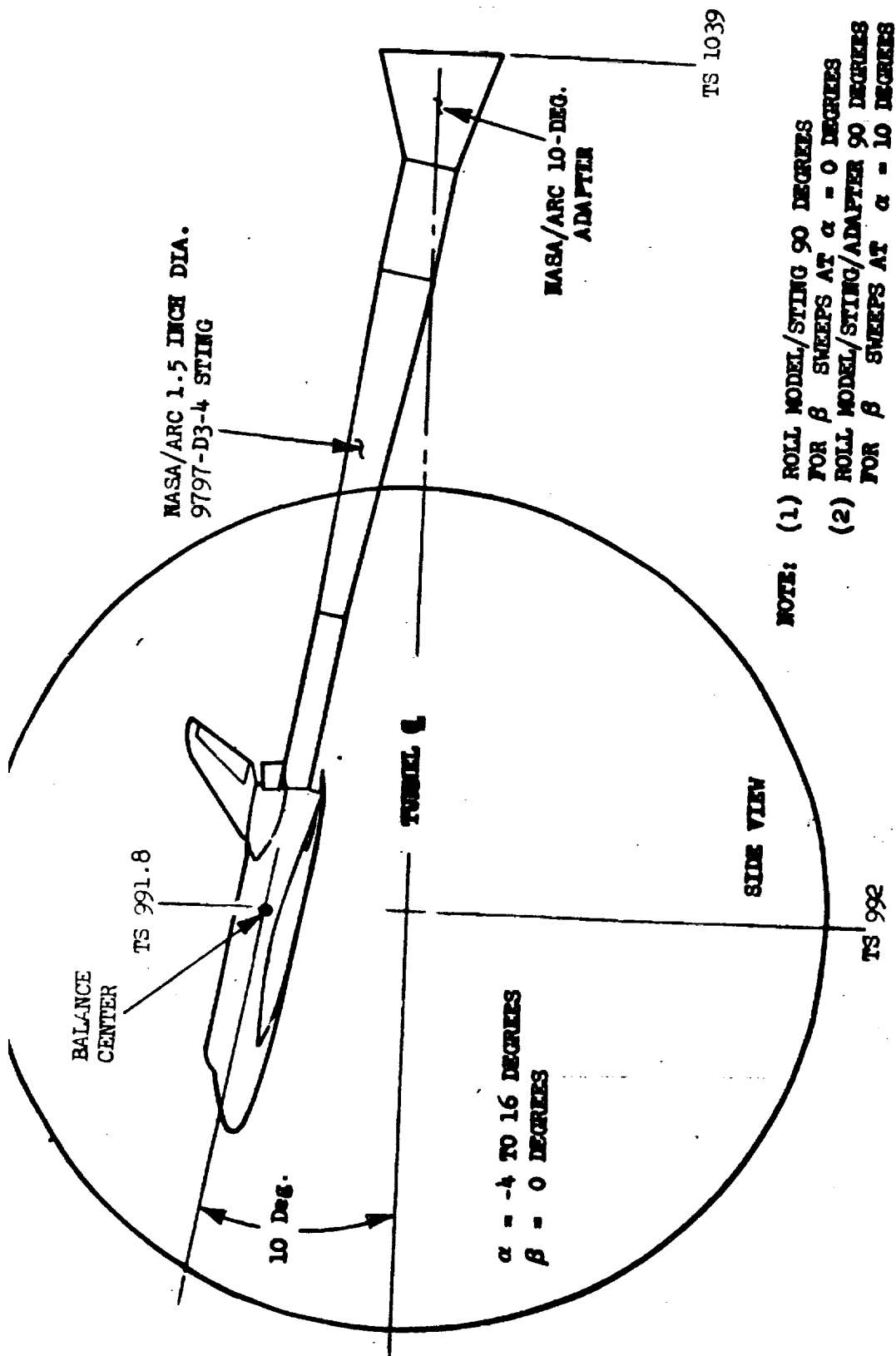
- VERTICAL TAIL WAS REPLACED BY A NON-METRIC BLADE STRUT FOR STRUT MOUNTING. INCREMENTAL VERTICAL TAIL FORCES WERE ESTIMATED FROM PRESSURES MEASURED IN THE SPEED BRAKE BASE REGION.
- [NOZZLE INCREMENT + STING INTERFERENCE TARE] = [MODEL + STRUT + DUMMY STING] - [MODEL + STRUT + NOZZLE]
- [STING INTERFERENCE TARE] = [MODEL + STRUT + DUMMY STING] - [MODEL + STRUT]
- [CORRECTED DATA] = [MODEL STING-MOUNTED] - [NOZZLE INCREMENT + STING INTERFERENCE TARE]



**Notes:**

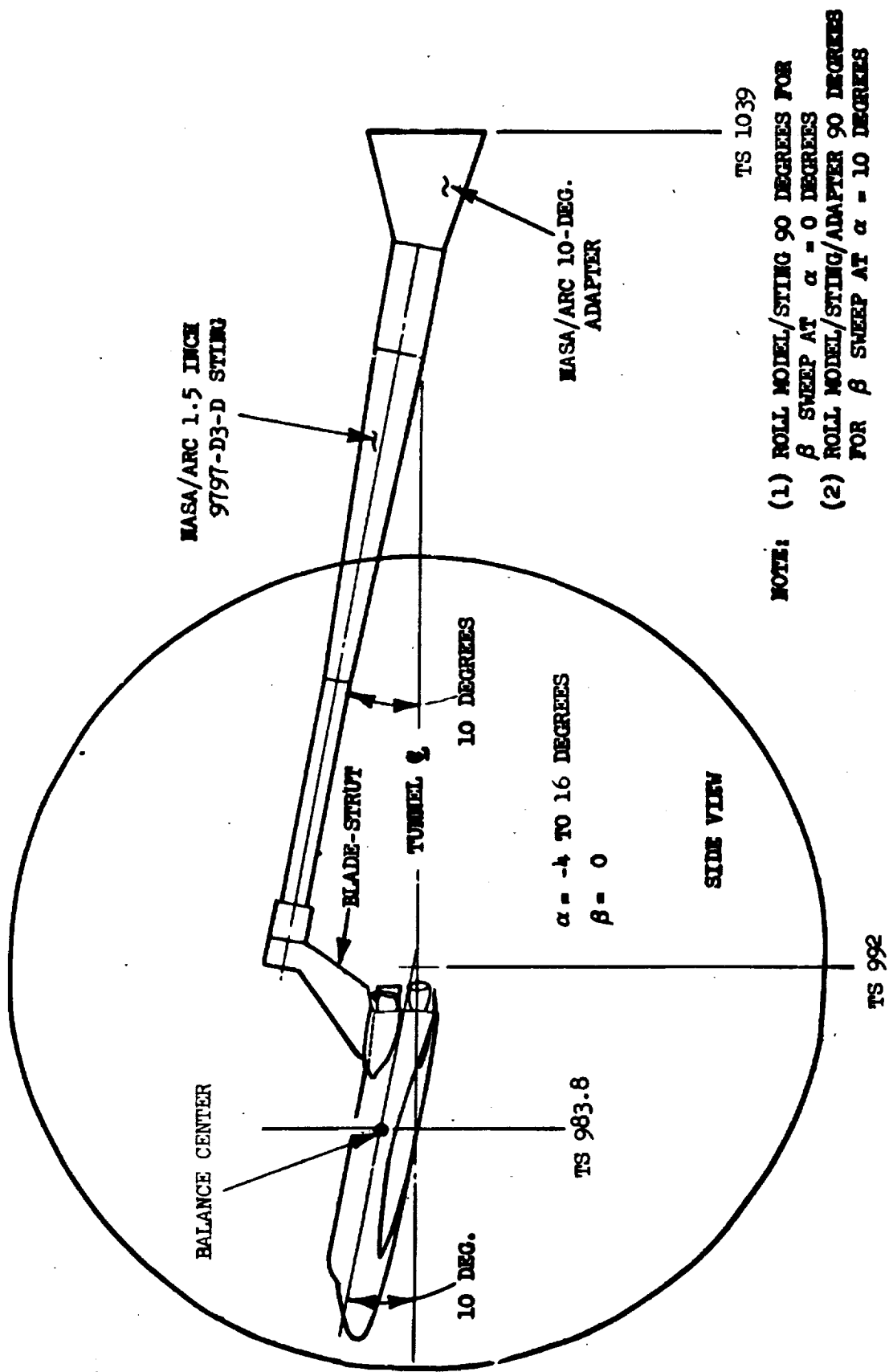
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

Figure 1. - Axis systems.



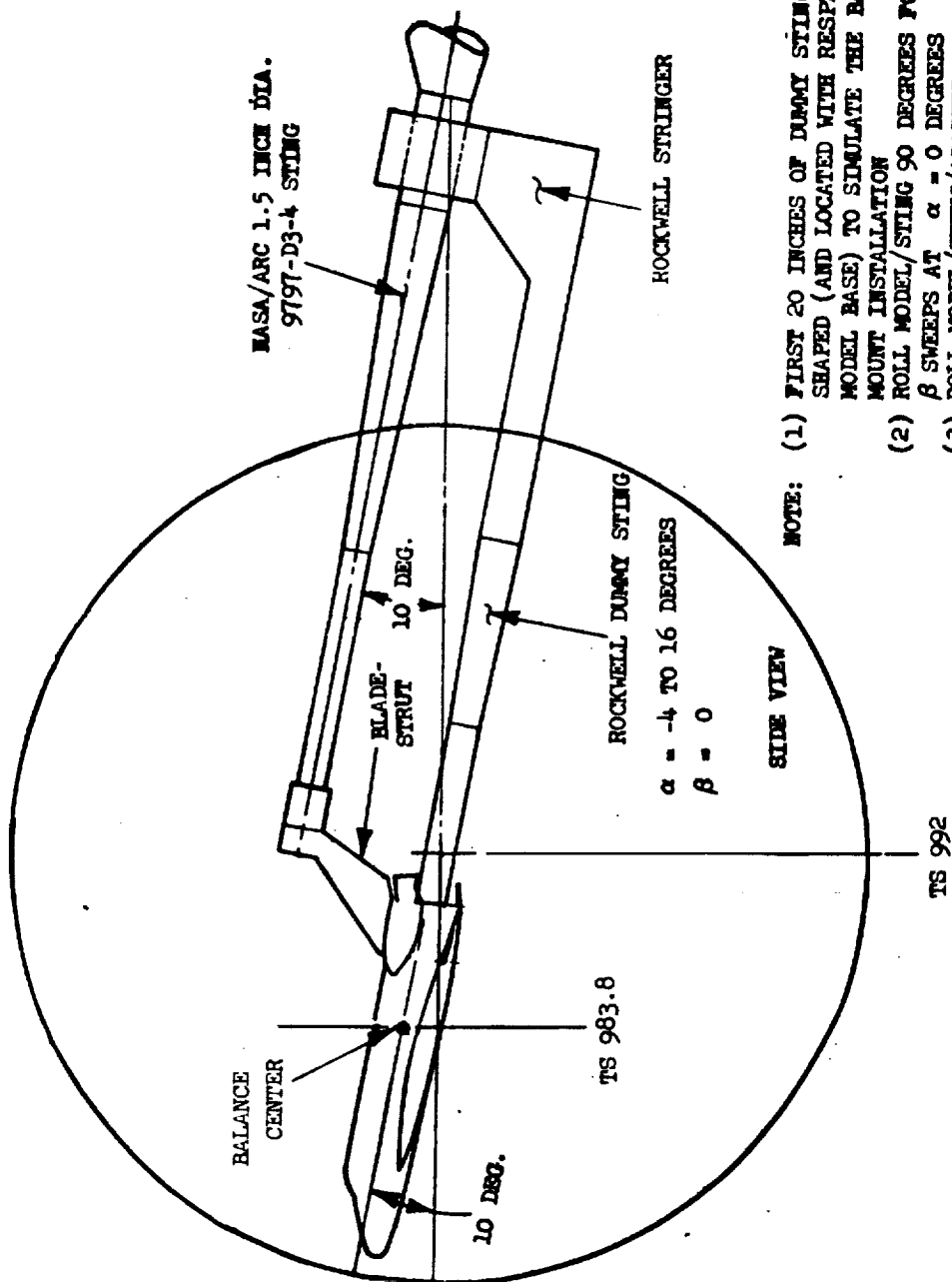
a. Base Mount Tunnel Installation for Test OA59

Figure 2. - Model sketches.



b. Blade-Strut Mount Tunnel Installation for Test OA59

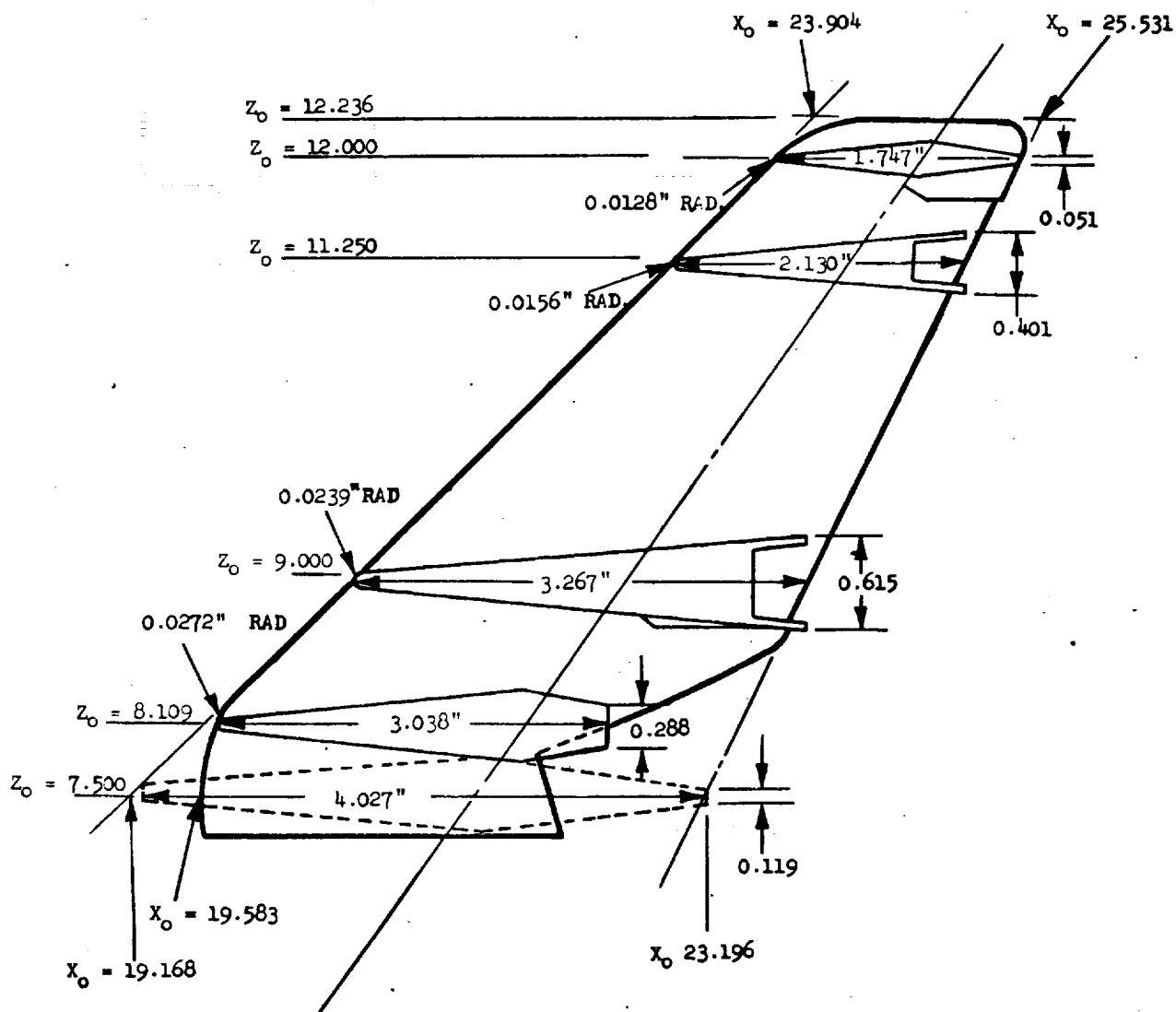
Figure 2. - Continued.



NOTE: (1) FIRST 20 INCHES OF DUMMY STRING IS SHAPED (AND LOCATED WITH RESPECT TO MODEL BASE) TO SIMULATE THE BASE MOUNT INSTALLATION  
(2) ROLL MODEL/STRING 90 DEGREES FOR  $\beta$  SWEEPS AT  $\alpha = 0$  DEGREES  
(3) ROLL MODEL/STRING/ADAPTER 90 DEGREES FOR  $\beta$  SWEEPS AT  $\alpha = 10$  DEGREES

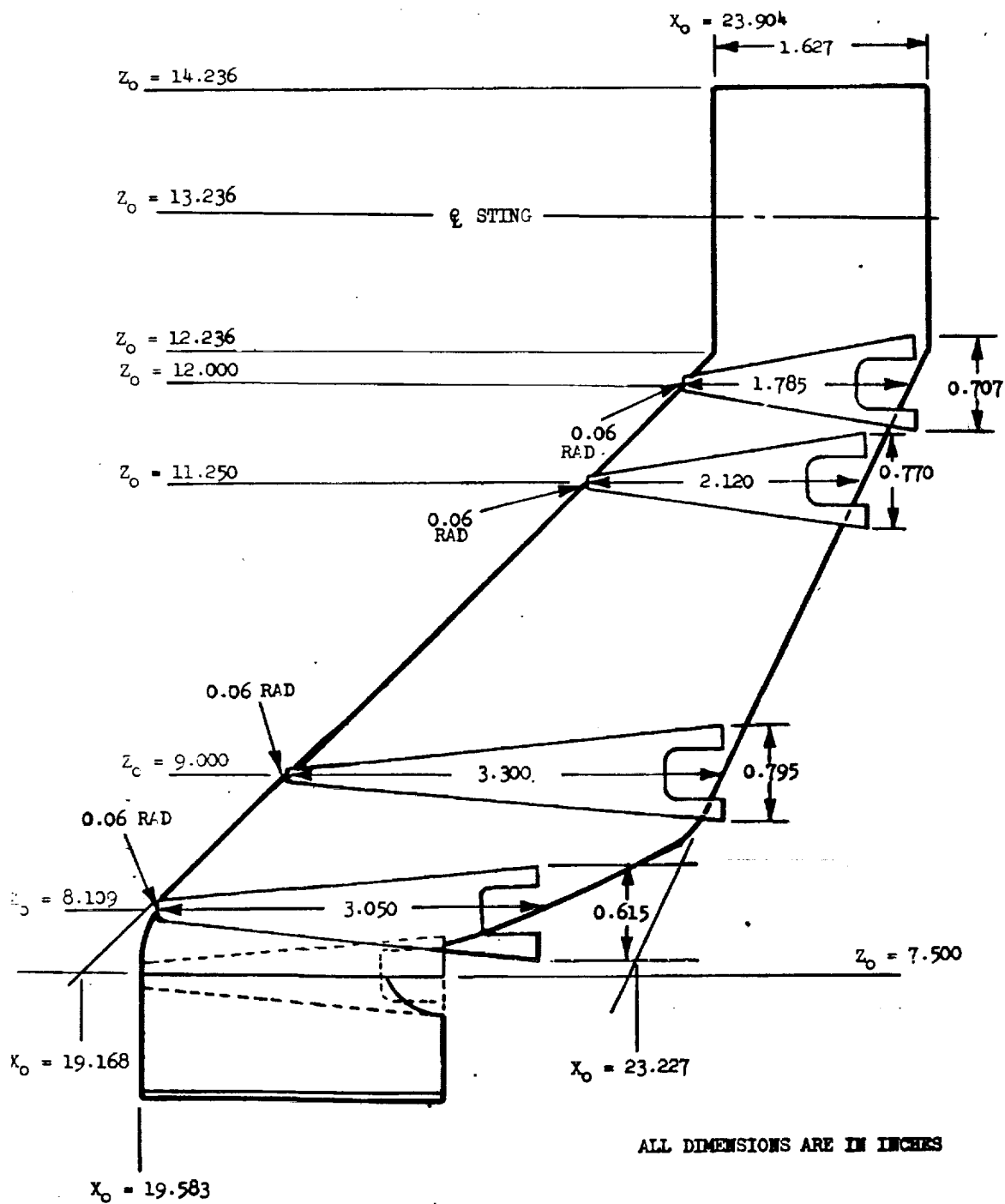
c. Blade-Mount Tunnel Installation with Dummy String for Test 0459

Figure 2. - Continued.



d. Vertical Tail Cross-Sections 24.92° Speed Brake

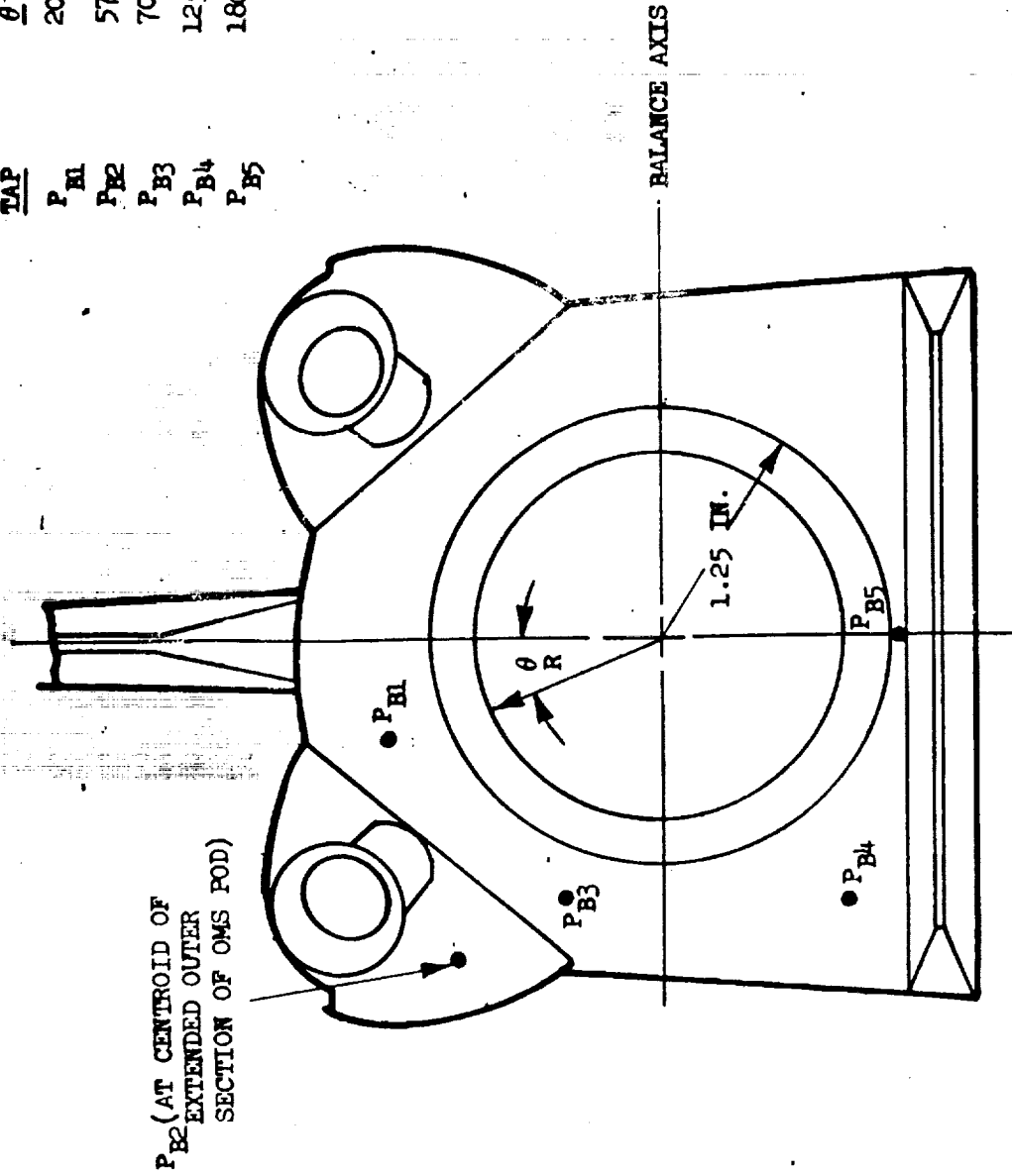
Figure 2. - Continued.



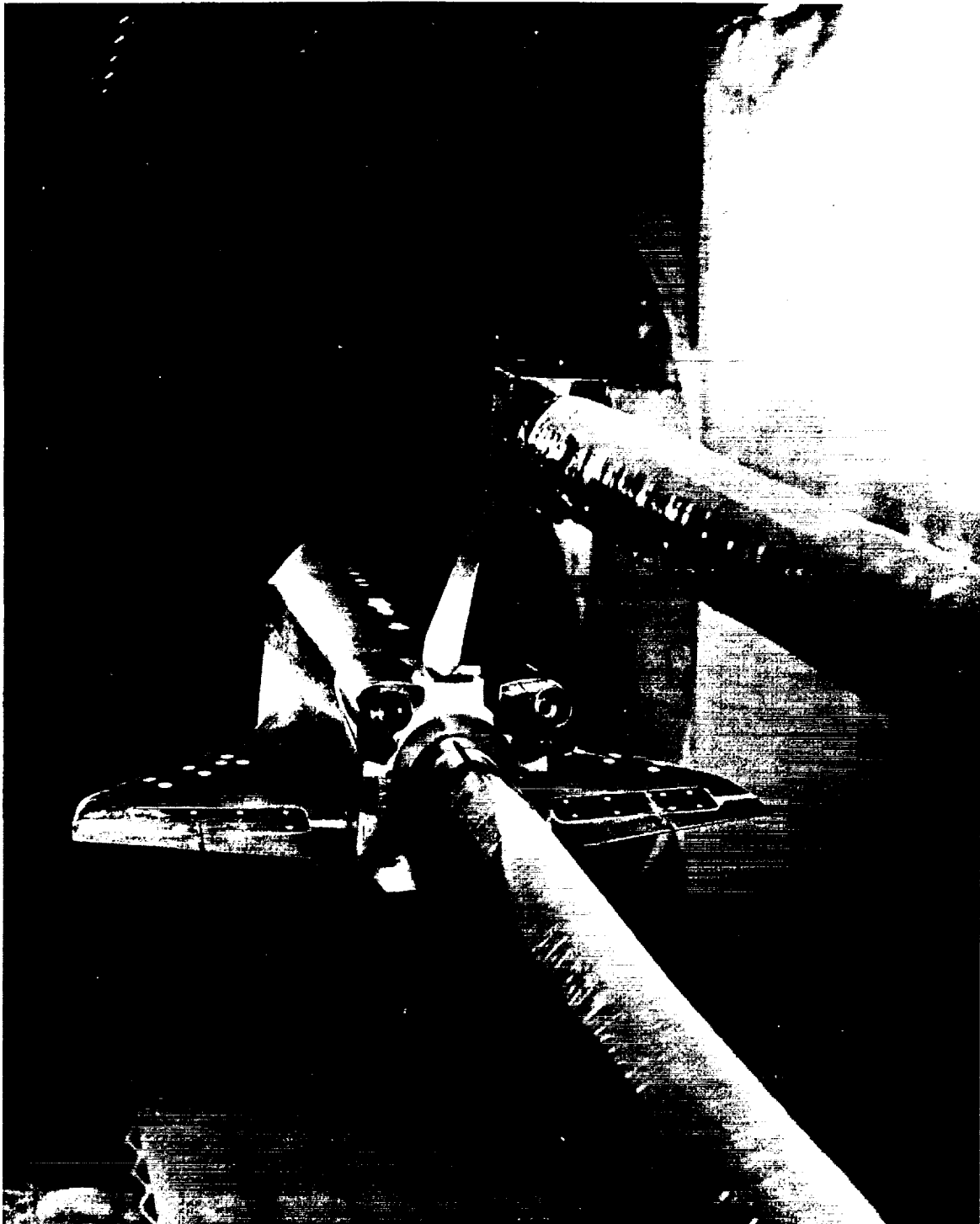
e. Blade-Strut used for Test OA59  
Figure 2. - Continued.



TAP	$\theta$	R
P <sub>B1</sub>	20°	1.60 IN.
P <sub>B2</sub>	57°	2.10 IN.
P <sub>B3</sub>	70°	1.50 IN.
P <sub>B4</sub>	125°	1.76 IN.
P <sub>B5</sub>	180°	1.29 IN.

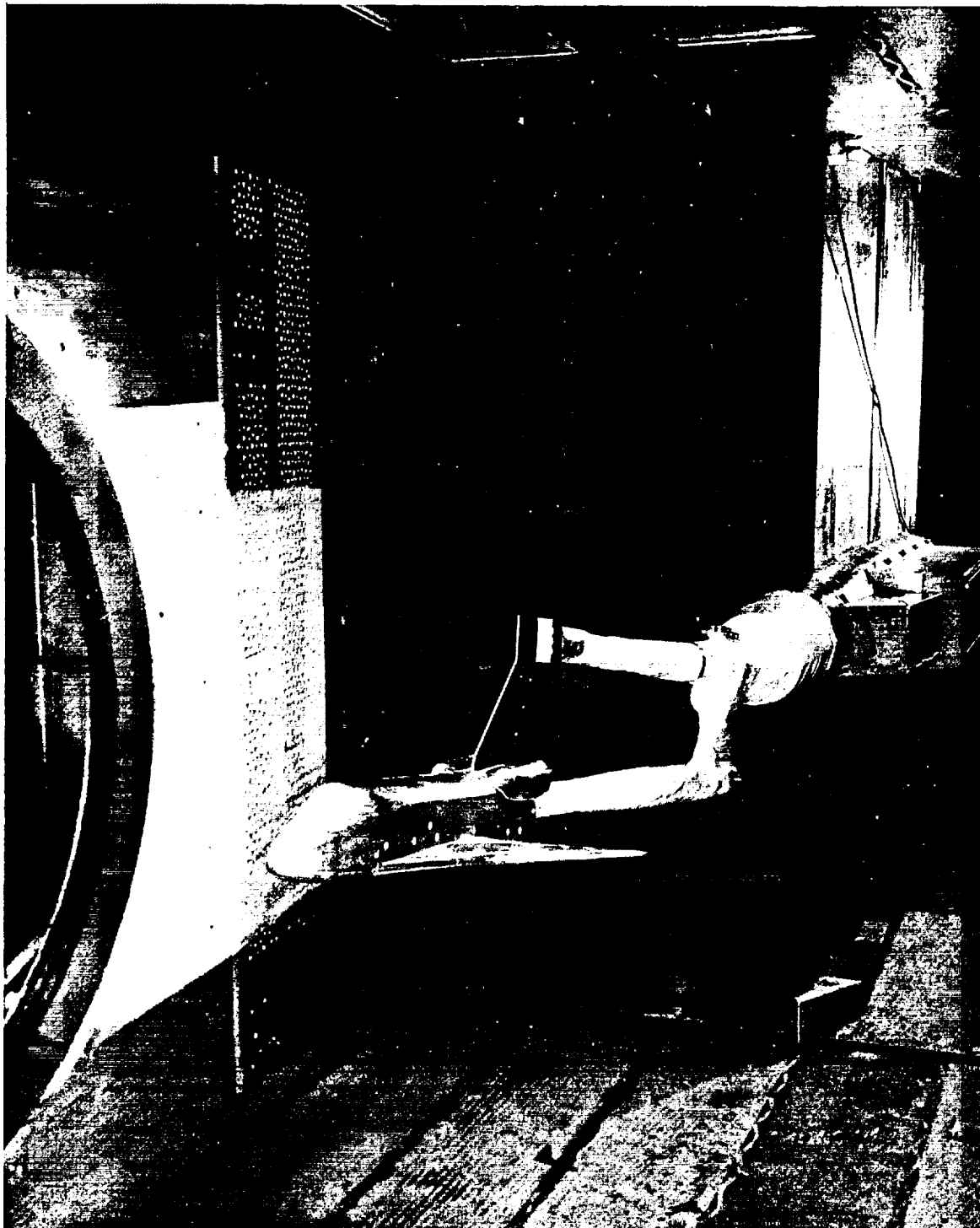


f. Base and Cavity Pressure Locations  
Figure 2. - Concluded.



a. Rear 3/4 View

Figure 3. - Model installation photographs.



b. Front 3/4 View

Figure 3. - Concluded.

DATA FIGURES

VOLUME I

FIGURES 4 - 9

(REFER TO VOLUME II  
FOR FIGURES 10-15)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOCLAP	REFERENCE INFORMATION
(CER001)	ARC 63-703 2AS9 DALLA-(N24 RS V81)+STRUT+DUM STN8	.000	.000	-11.700	SREF .5053 50. FT.
(CER002)	ARC 63-703 2AS9 DALLA-(N24 RS V81)+STRUT+DUM STN8	.000	.000	-11.700	LREF .5935 FT.
(CER003)	ARC 63-703 2AS9 DALLA-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 63-703 2AS9 DALLA-(RS V81)+STRUT	.000	.000	-11.700	XMREF 12.6255 IN.
(CER013)	ARC 63-703 2AS9 DALLA-(RS V81)+STRUT	.000	.000	-11.700	YMREF .0000 IN.
					ZMREF -.3750 IN.
					SCALE .0150

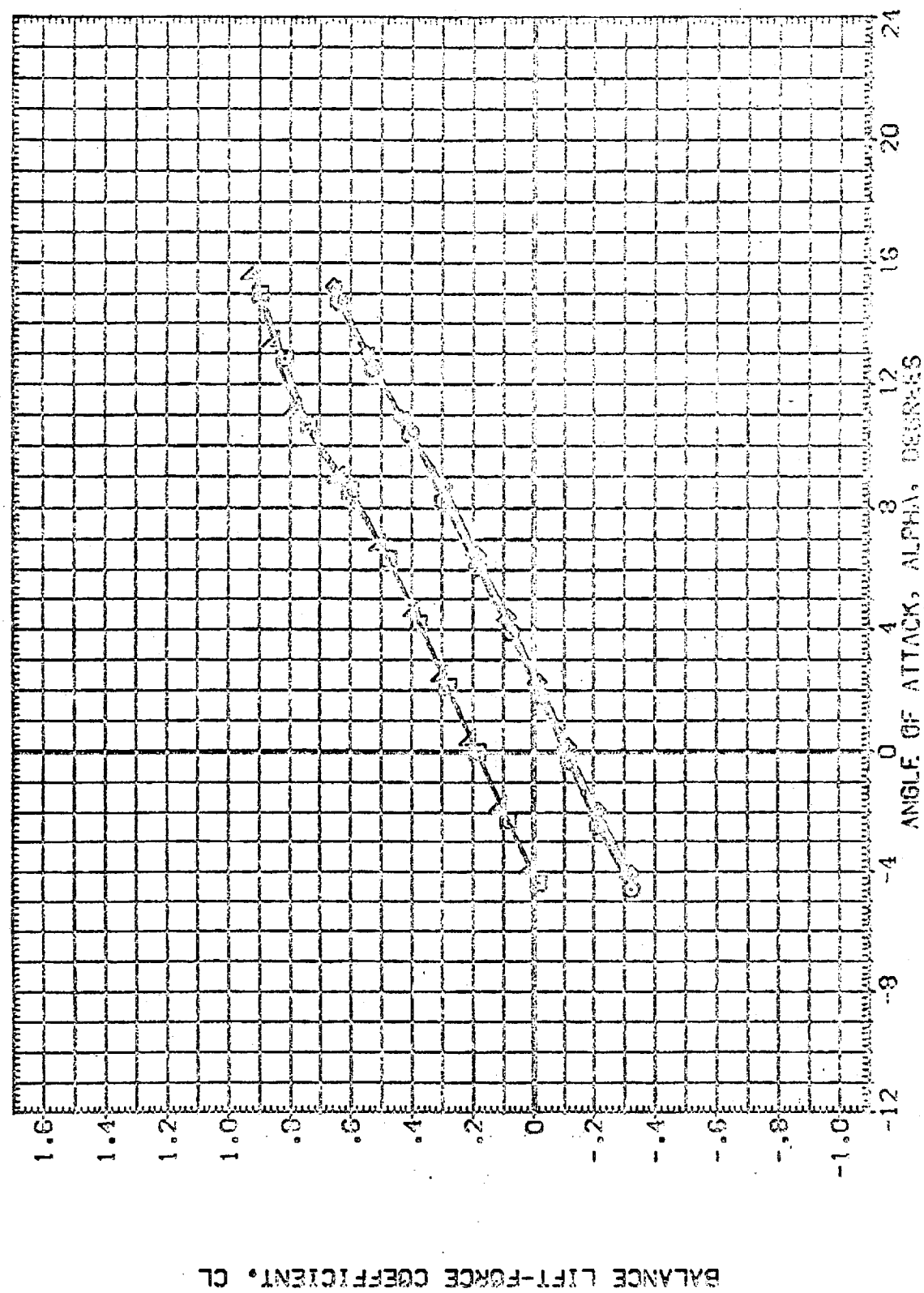


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

{CER012} Δ ARC 63-709 QAS9 0A11A-(CS V31)\*STRUT  
 {CER013} ARC 63-709 QAS9 0A11A-(CS V31)\*STRUT

.000 .000 -11.700  
 .000 15.000 -11.700

DNCP 1.1710 IN.  
 XMRP 12.6265 IN.  
 YMRP .0000 IN.  
 ZMRP -.37750 IN.  
 SCALE .0150

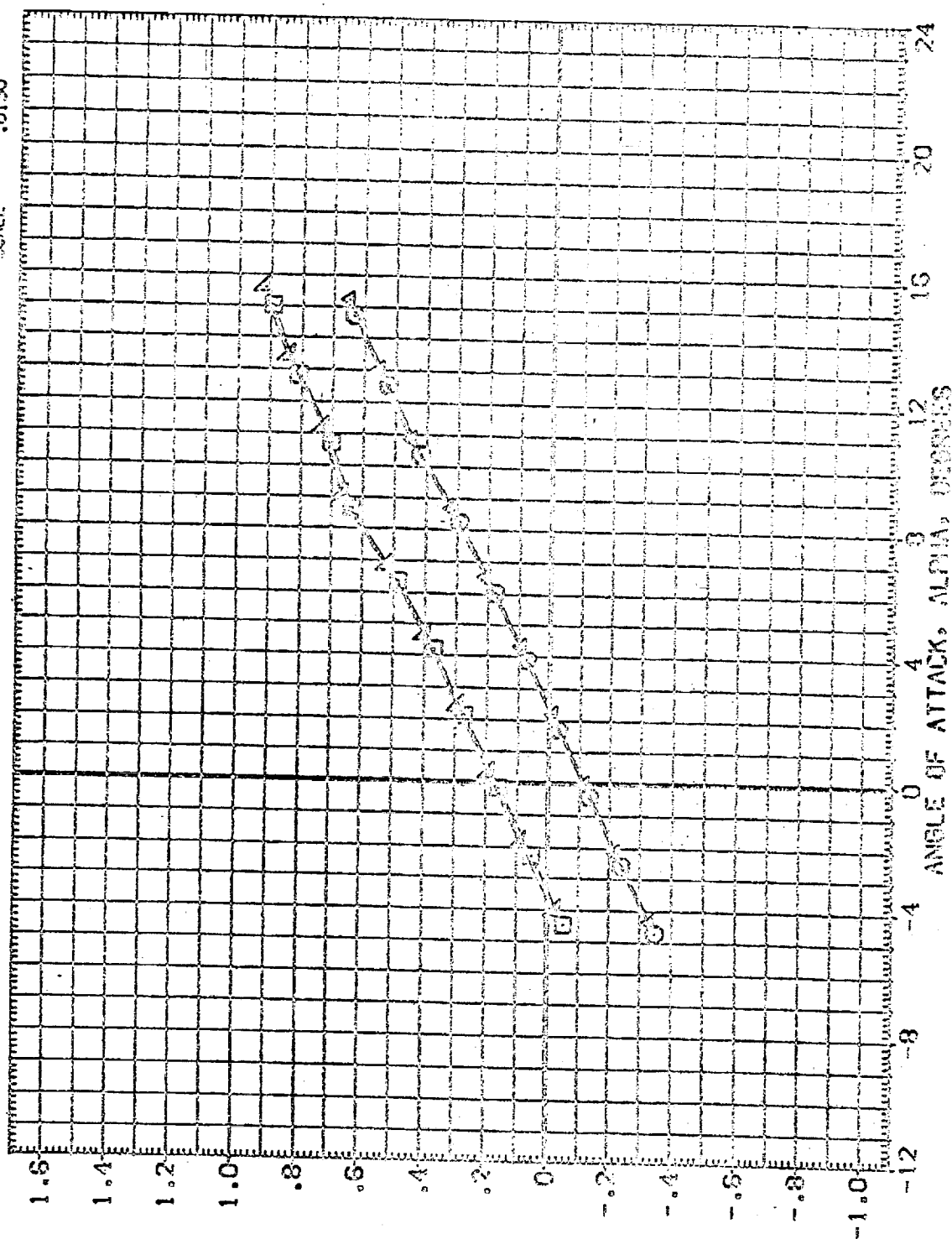


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 DMS9 DATA- (N24 RS V01)-STRUT+DUM STNG

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DMS9 DATA- (RS V01)-STRUT

(CER013) DATA NOT AVAILABLE

REF ELEVON REF FLAP

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

YREF 12.6255 IN.

ZREF .0000 IN.

SCALE -.9750 IN.

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 DMS9 DATA- (N24 RS V01)-STRUT+DUM STNG

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DMS9 DATA- (RS V01)-STRUT

(CER013) DATA NOT AVAILABLE

REF ELEVON REF FLAP

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

YREF 12.6255 IN.

ZREF .0000 IN.

SCALE -.9750 IN.

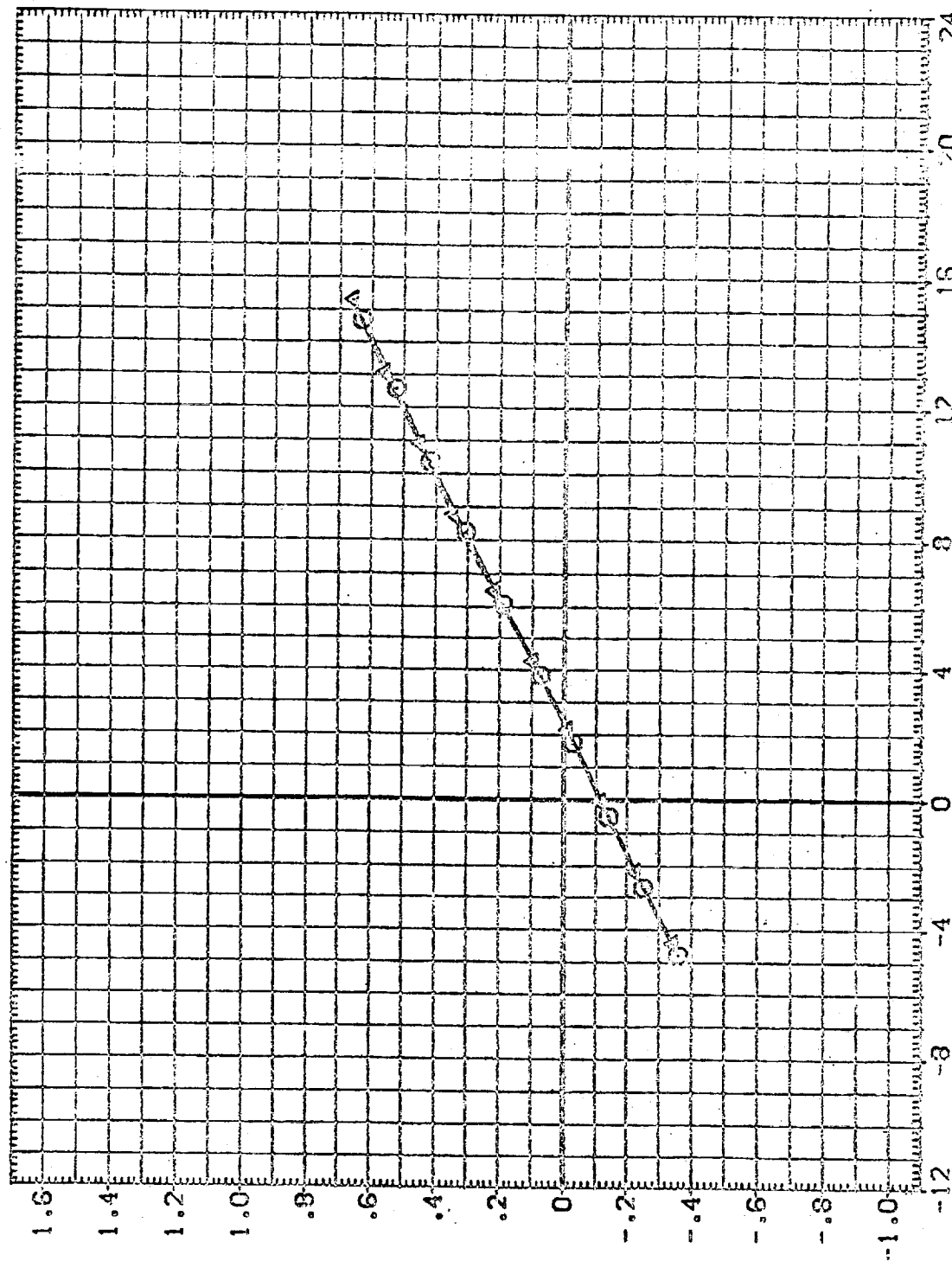


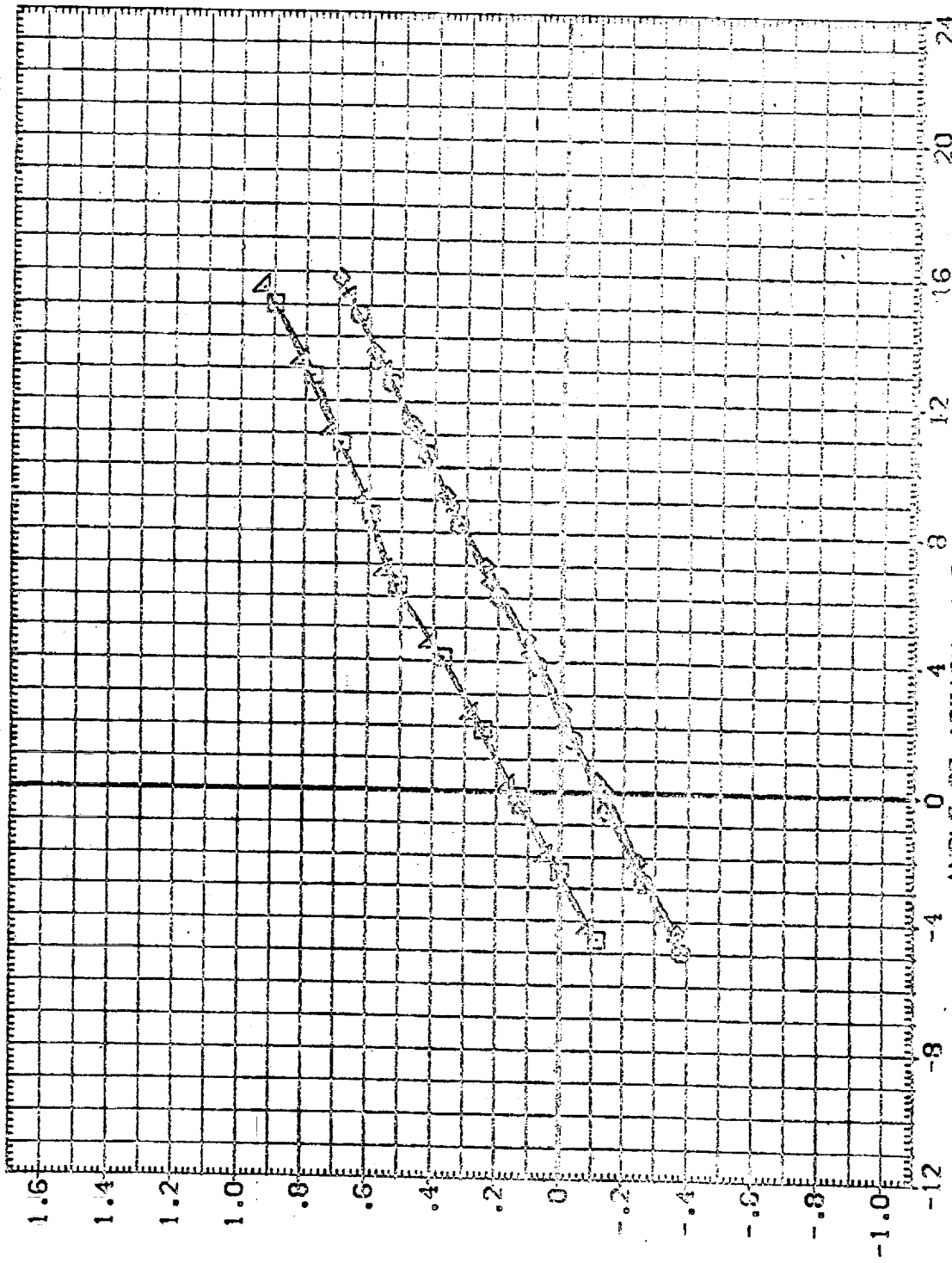
FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CMACH = .75

1.000 13.000 -11.700

YMRP  
ZMRP  
SCALE

.0000 IN.  
-.3750 IN.  
.0150



BALANCE LIFT-FORCE COEFFICIENT, CL

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

COJMACH = .80





{CER012} Δ ARC 66-709 0A59 0A11A-(R5 V8)+STRUT  
 {CER013} ARC 66-709 0A59 0A11A-(R5 V8)+STRUT  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

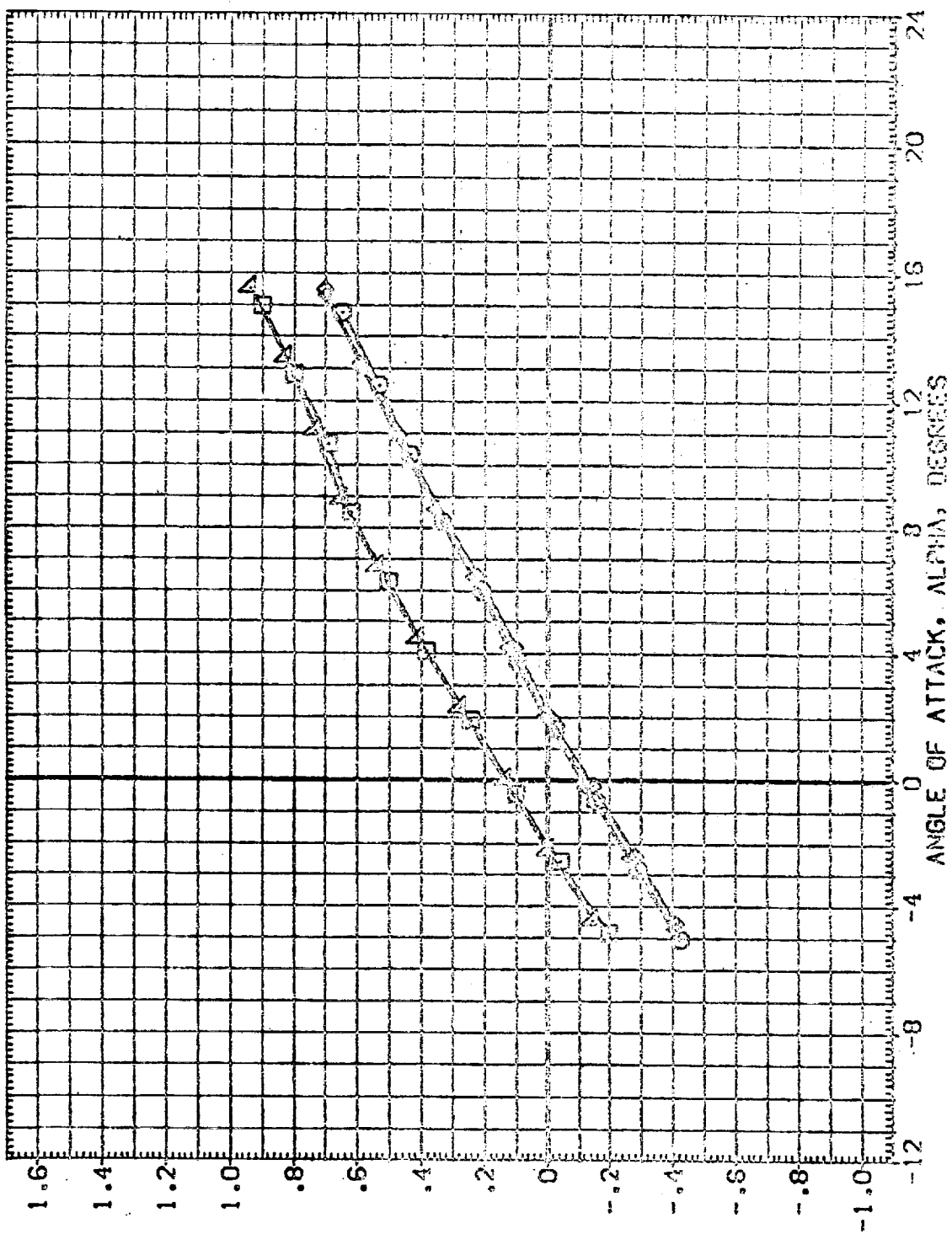


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

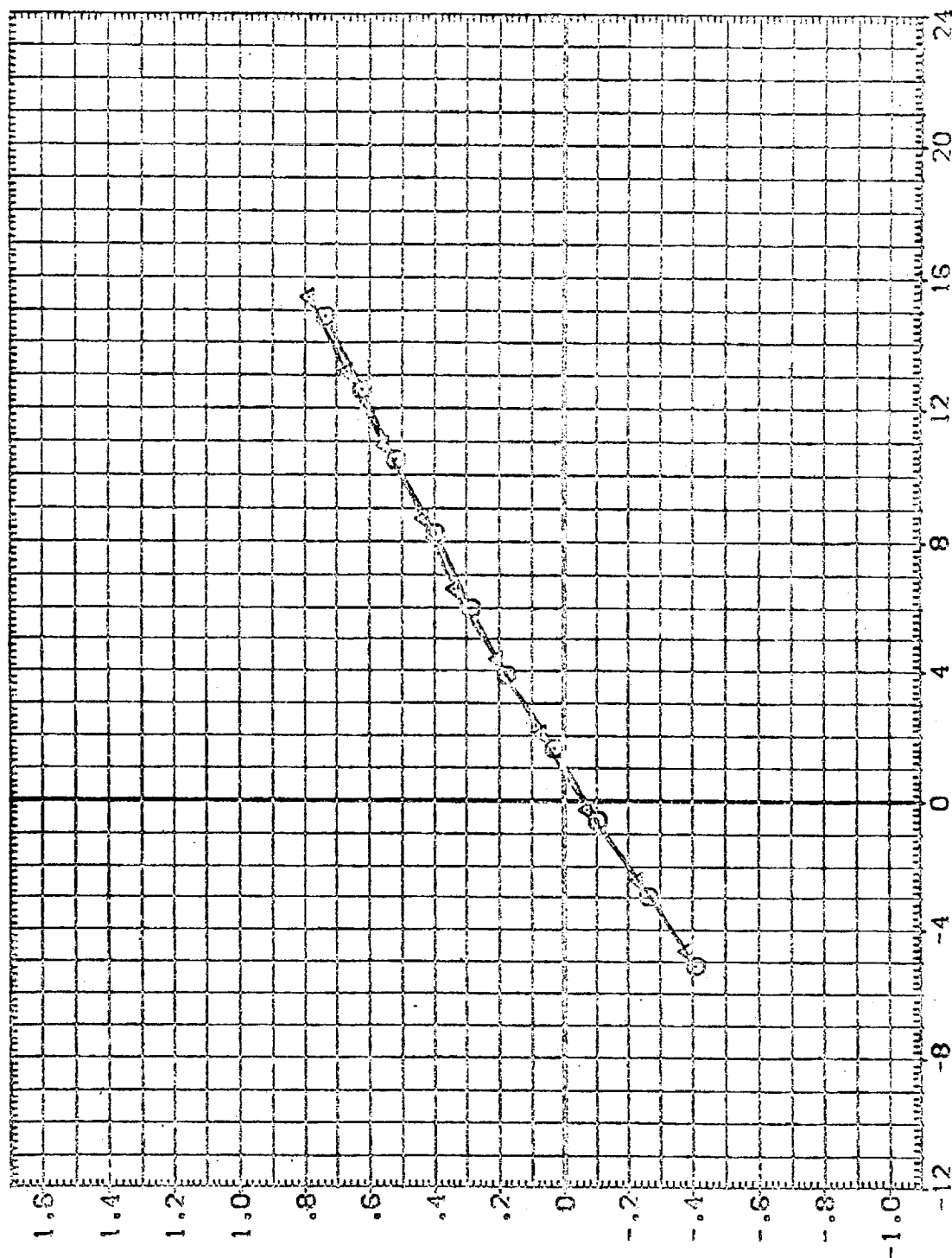
REFERENCE INFORMATION  
 SREF .8053 SQ.FT.  
 LREF .5935 FT.  
 SREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) ARC SS-/09 DASH DALLA-(M24 RS V3)+STRUT+DUM STING  
 (CER003) DATA NOT AVAILABLE  
 (CER009) DATA NOT AVAILABLE  
 (CER012) ARC SS-/09 DASH DALLA-(RS V3)+STRUT  
 (CER013) DATA NOT AVAILABLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) ARC SS-/09 DASH DALLA-(M24 RS V3)+STRUT+DUM STING  
 (CER003) DATA NOT AVAILABLE  
 (CER009) DATA NOT AVAILABLE  
 (CER012) ARC SS-/09 DASH DALLA-(RS V3)+STRUT  
 (CER013) DATA NOT AVAILABLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) ARC SS-/09 DASH DALLA-(M24 RS V3)+STRUT+DUM STING  
 (CER003) DATA NOT AVAILABLE  
 (CER009) DATA NOT AVAILABLE  
 (CER012) ARC SS-/09 DASH DALLA-(RS V3)+STRUT  
 (CER013) DATA NOT AVAILABLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) ARC SS-/09 DASH DALLA-(M24 RS V3)+STRUT+DUM STING  
 (CER003) DATA NOT AVAILABLE  
 (CER009) DATA NOT AVAILABLE  
 (CER012) ARC SS-/09 DASH DALLA-(RS V3)+STRUT  
 (CER013) DATA NOT AVAILABLE



BALANCE LIFT-FORCE COEFFICIENT, CL

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(GMACH = .95

{CER012} Δ ARC 66-709 0A59 0A11A-(RS V81)+STRUT  
 {CER013} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

.000 .000 .000  
 .000 .000 .000  
 .000 .000 .000

XMRP  
 YMRP  
 ZMRP  
 SCALE

12.6255 IN.  
 .0000 IN.  
 -.3750 IN.  
 .0150

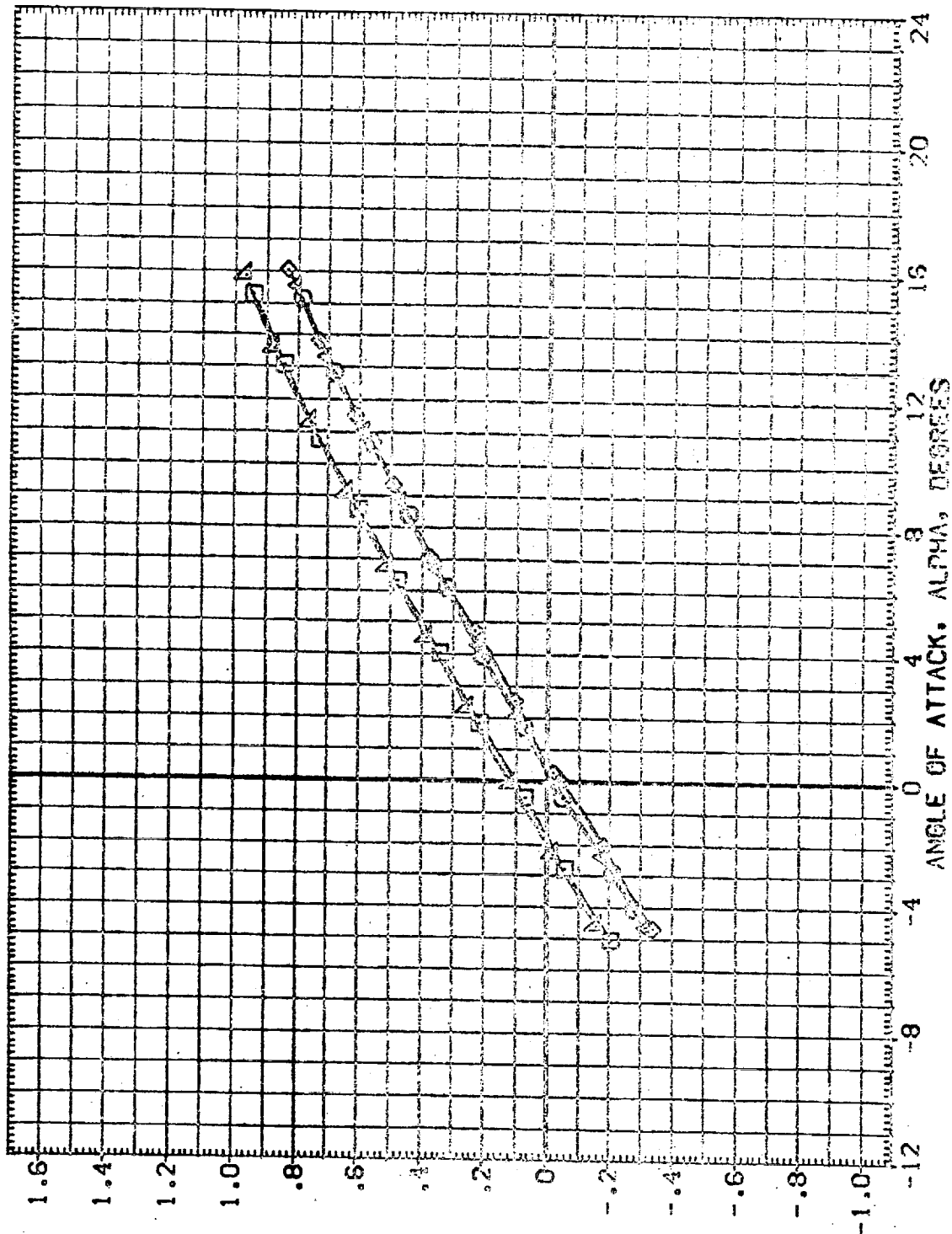


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CHMACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) O O X Z  
 (CER003) ARC 65-703 DAS3 DALLA-(N24 RS V31)+STRUT+CLM STING  
 (CER009) ARC 65-703 DAS3 DALLA-(N24 RS V81)+STRUT+CLM STING  
 (CER012) ARC 65-703 DAS3 DALLA-(N24 RS V81)+STRUT  
 (CER013) ARC 65-703 DAS3 DALLA-(N24 RS V81)+STRUT

BETA ELEVON 80CLAP  
 .000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF 5253 50 FT.  
 LREF 5335 FT.  
 BREF 1.1710 IN.  
 YMRP 12.6255 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

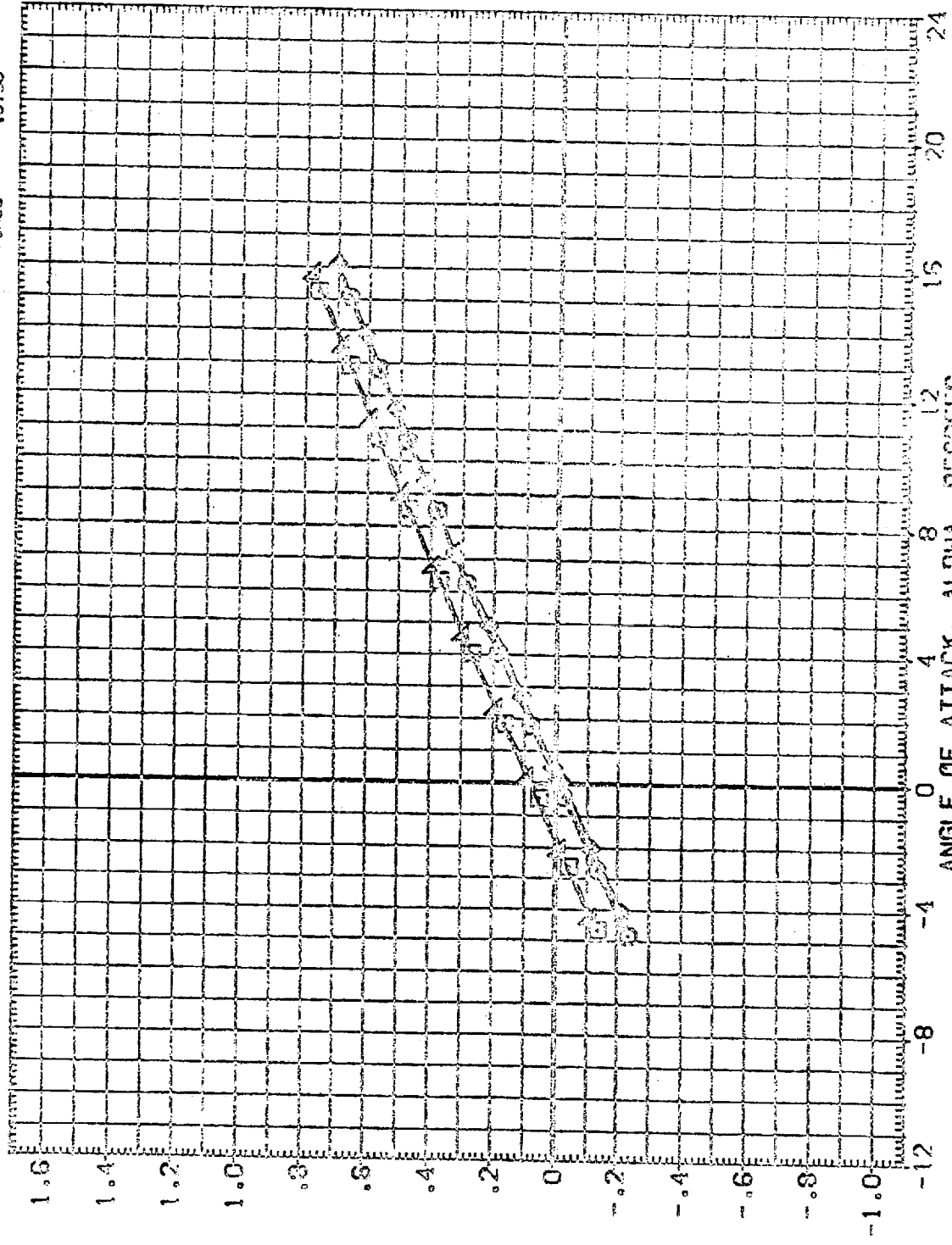


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = 1.50

DATA SET SYMBOL

(CER001) □

(CER003) □

(CER009) □

(CER012) □

(CER013) □

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

ARC 66-709 0A59 0A11A-(RS V8)+STRUT

ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA

.000

.000

.000

.000

.000

ELEVON

.000

15.000

.000

.000

15.000

REFERENCE INFORMATION

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

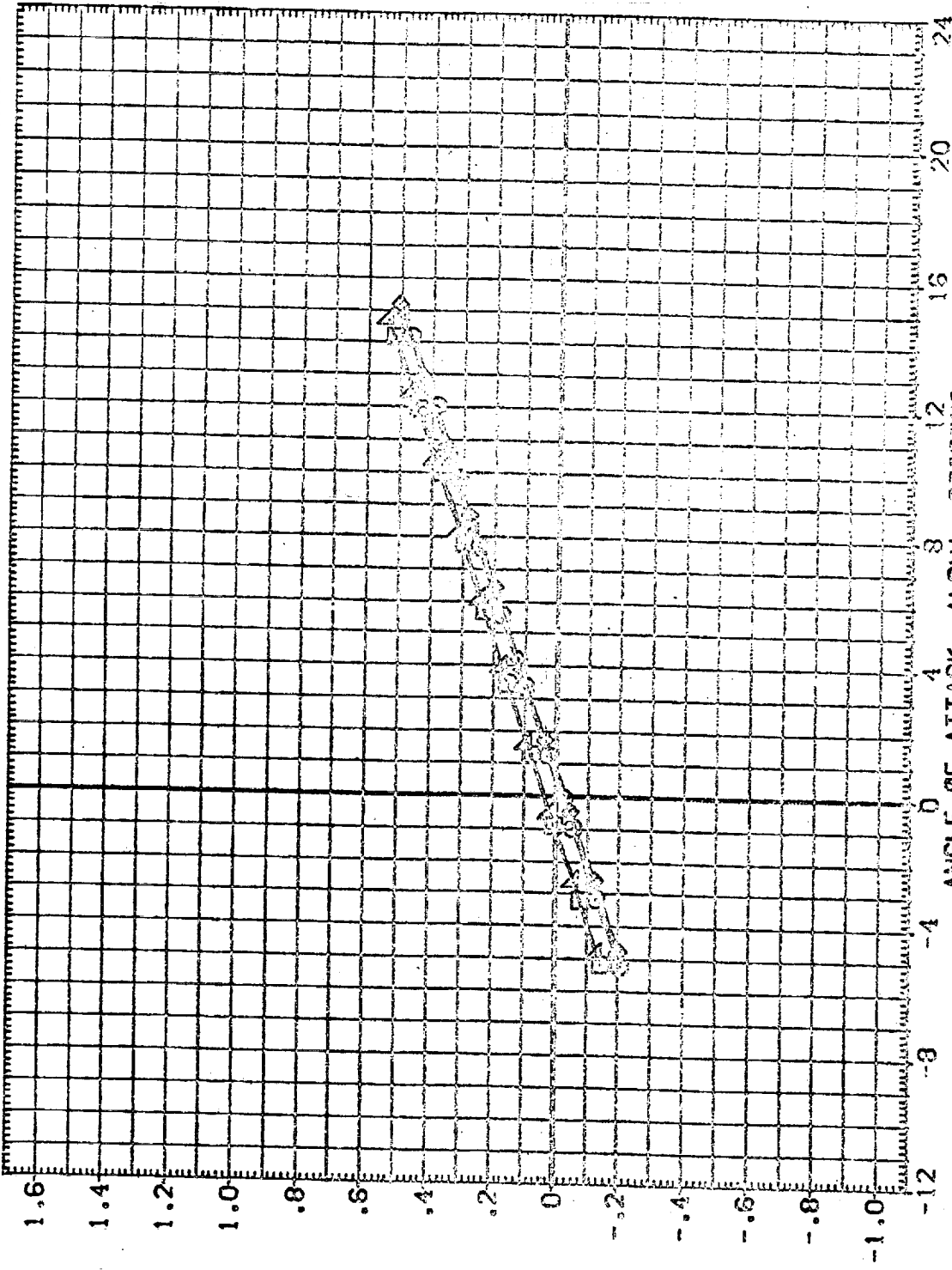


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA39 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 DA39 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 DA39 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 DA39 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 DA39 DA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

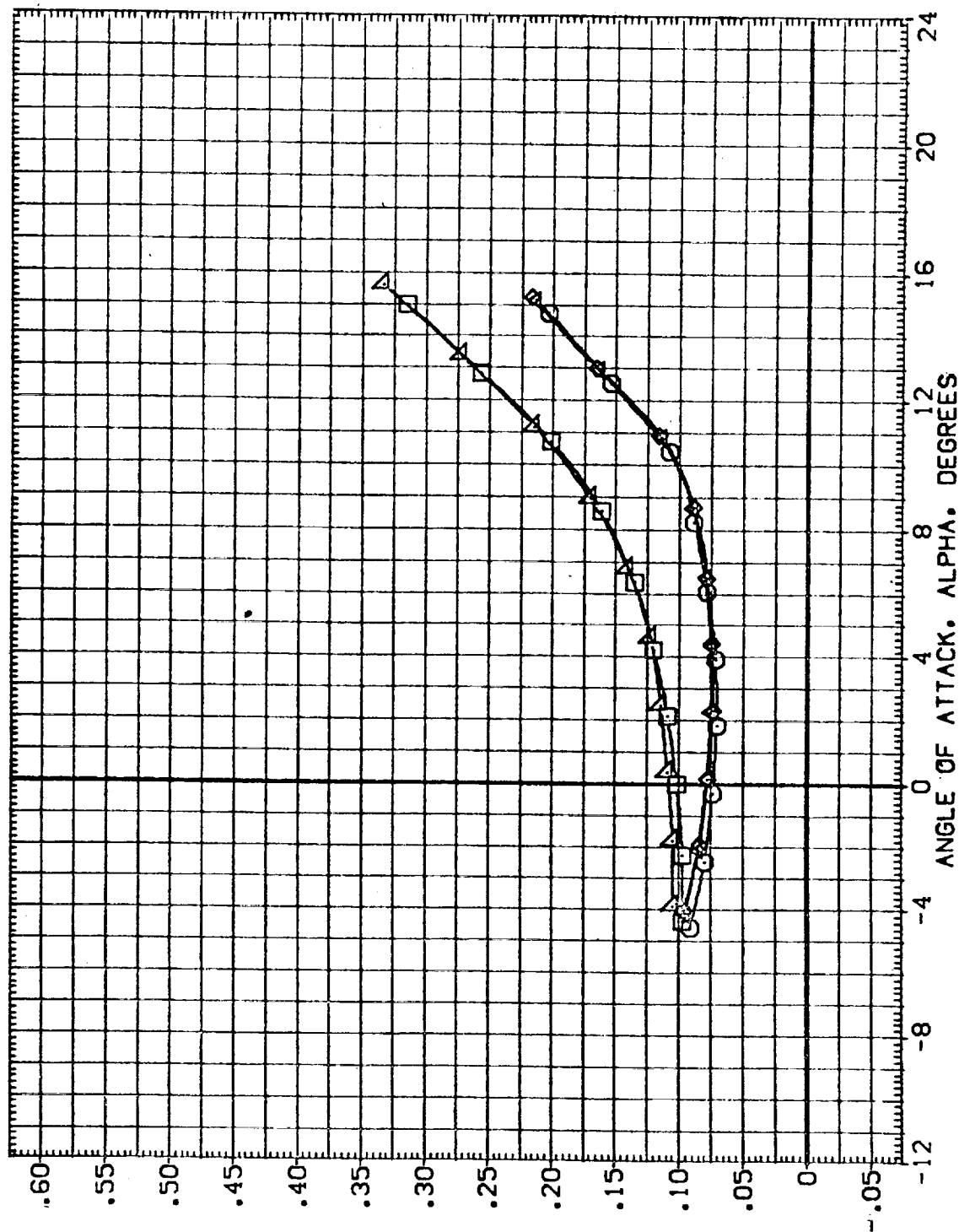


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL      COMPUTATION DESCRIPTION      REFERENCE INFORMATION

(CER001)      ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT+DUM STNG      SREF      .6053      50.FT.

(CER003)      ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT+DUM STNG      LREF      .5935      FT.

(CER009)      DATA NOT AVAILABLE      BREF      1.1710      IN.

(CER012)      ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT      YMRP      .0000      IN.

(CER013)      ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT      ZMRP      -.3750      IN.

SCALE      .0150

BETA      ELEVON      DFLAP

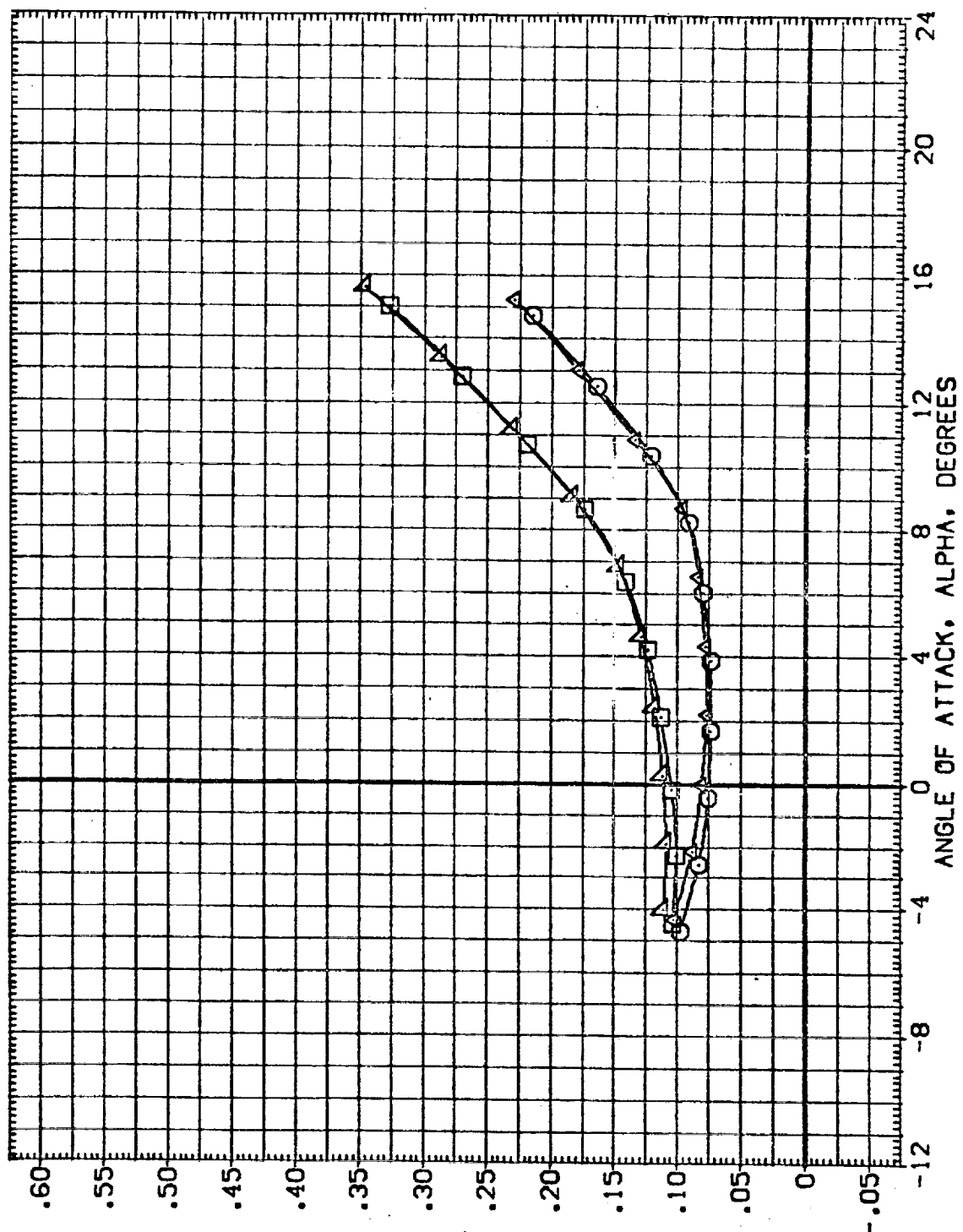
.000      .000      -11.700

.000      15.000      -11.700

.000      .000      -11.700

.000      .000      -11.700

.000      15.000      -11.700



BALANCE DRAG-FORCE COEFFICIENT, CD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 QAS9 Q111A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER003}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{CER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 QAS9 Q111A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.9750 IN.
					SCALE .0150

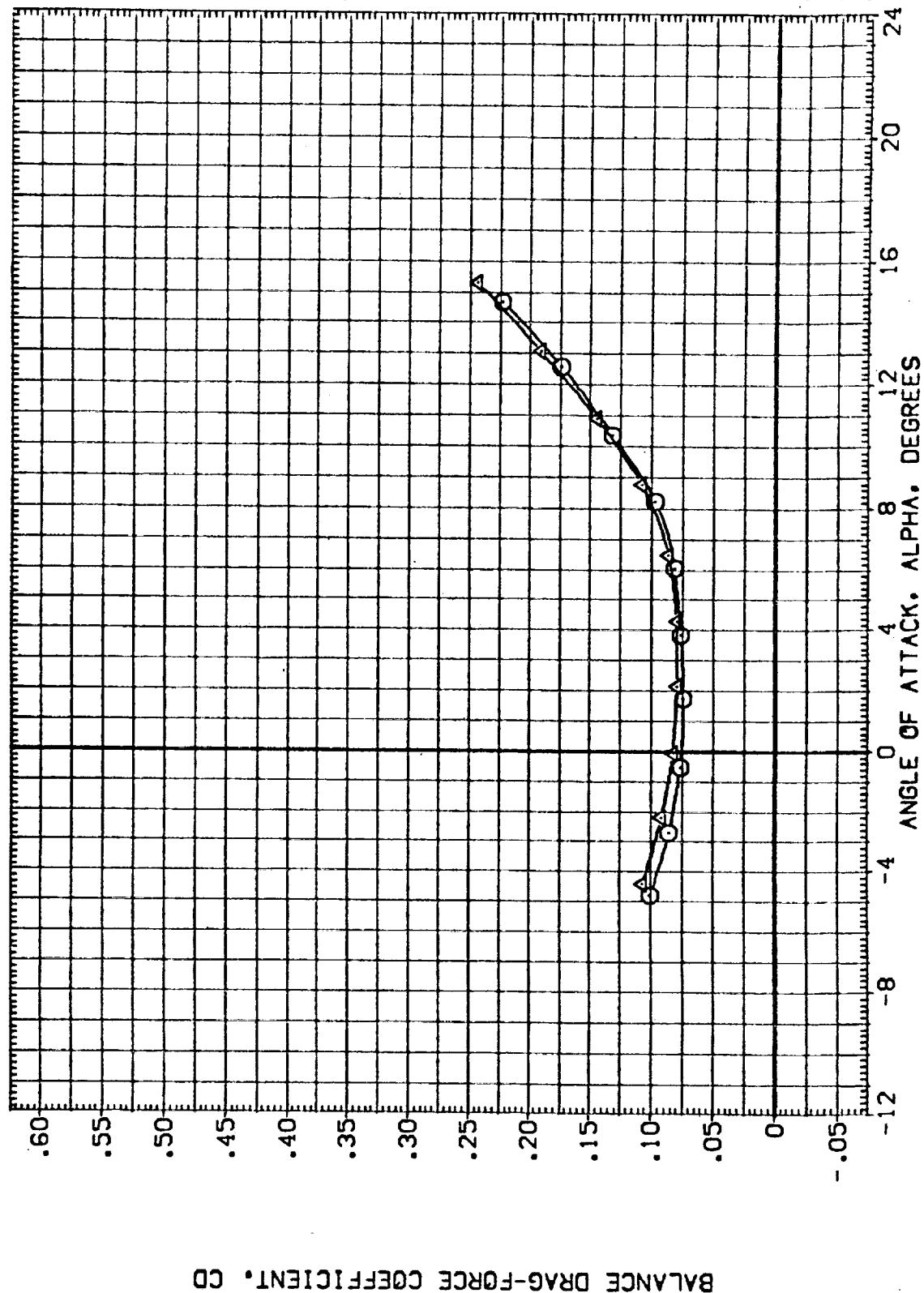


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CCJ MACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDLAP    REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 50.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF 5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6275 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

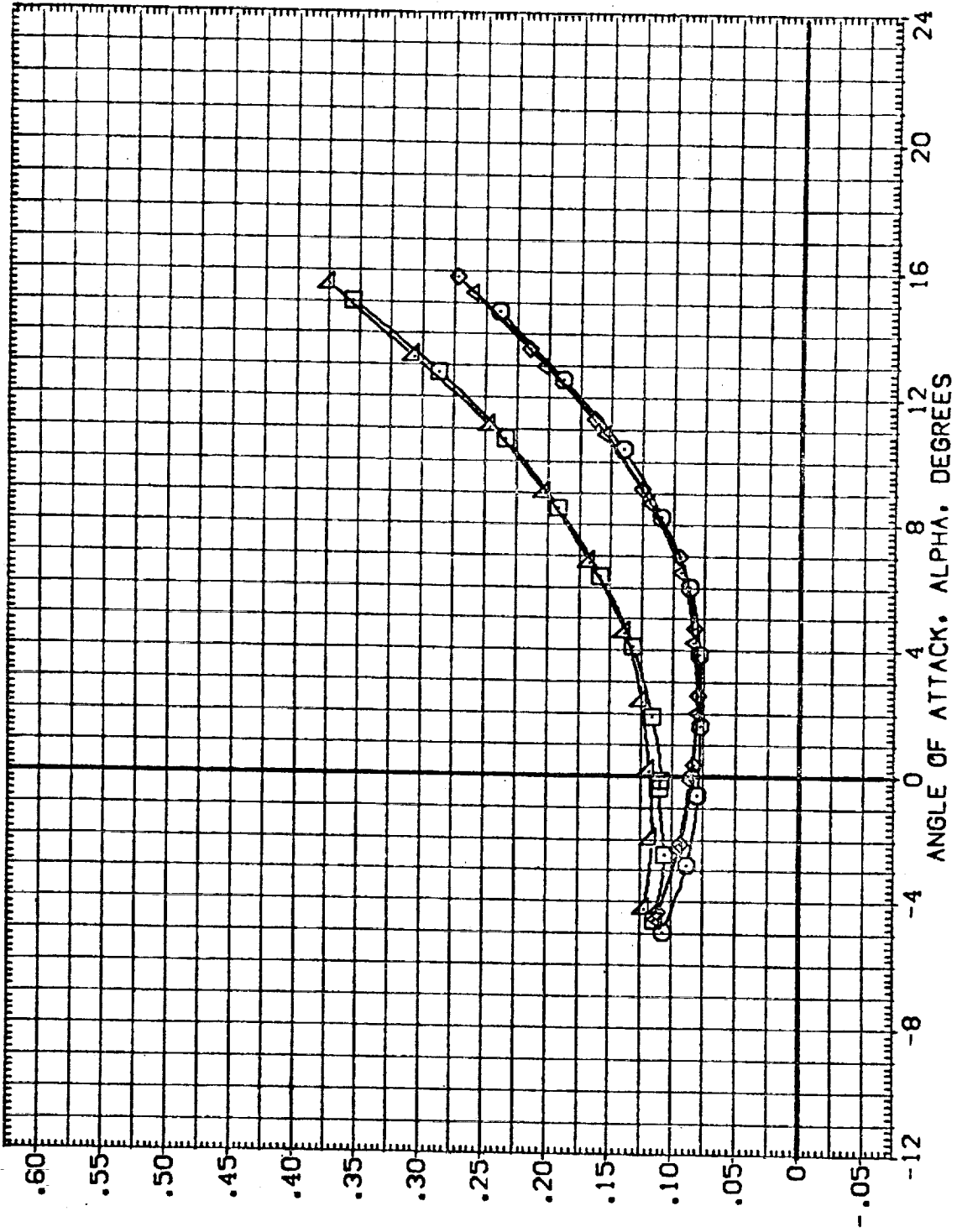


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CD/MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 65-709 0A59 0A11A-(N21 R5 V8)+STRUT+OUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{CER003}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{CER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 65-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

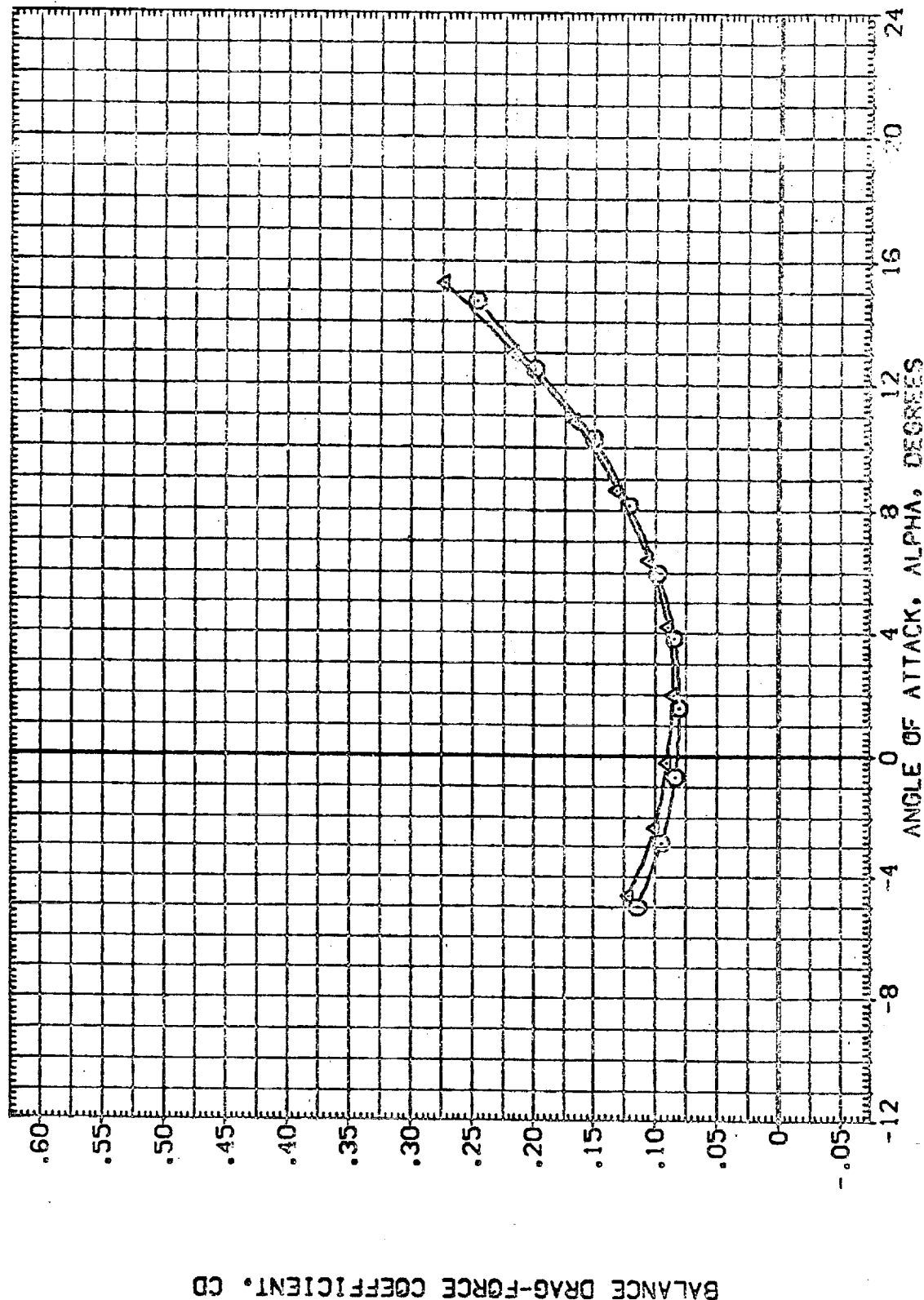


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DJM STNG

(CER003) ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DJM STNG

(CER009) ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT

(CER012) ARC 66-709 0A59 0A11A-(R5 V81)+STRUT

(CER013) ARC 66-709 0A59 0A11A-(R5 V81)+STRUT

BETA ELEVON QOF LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

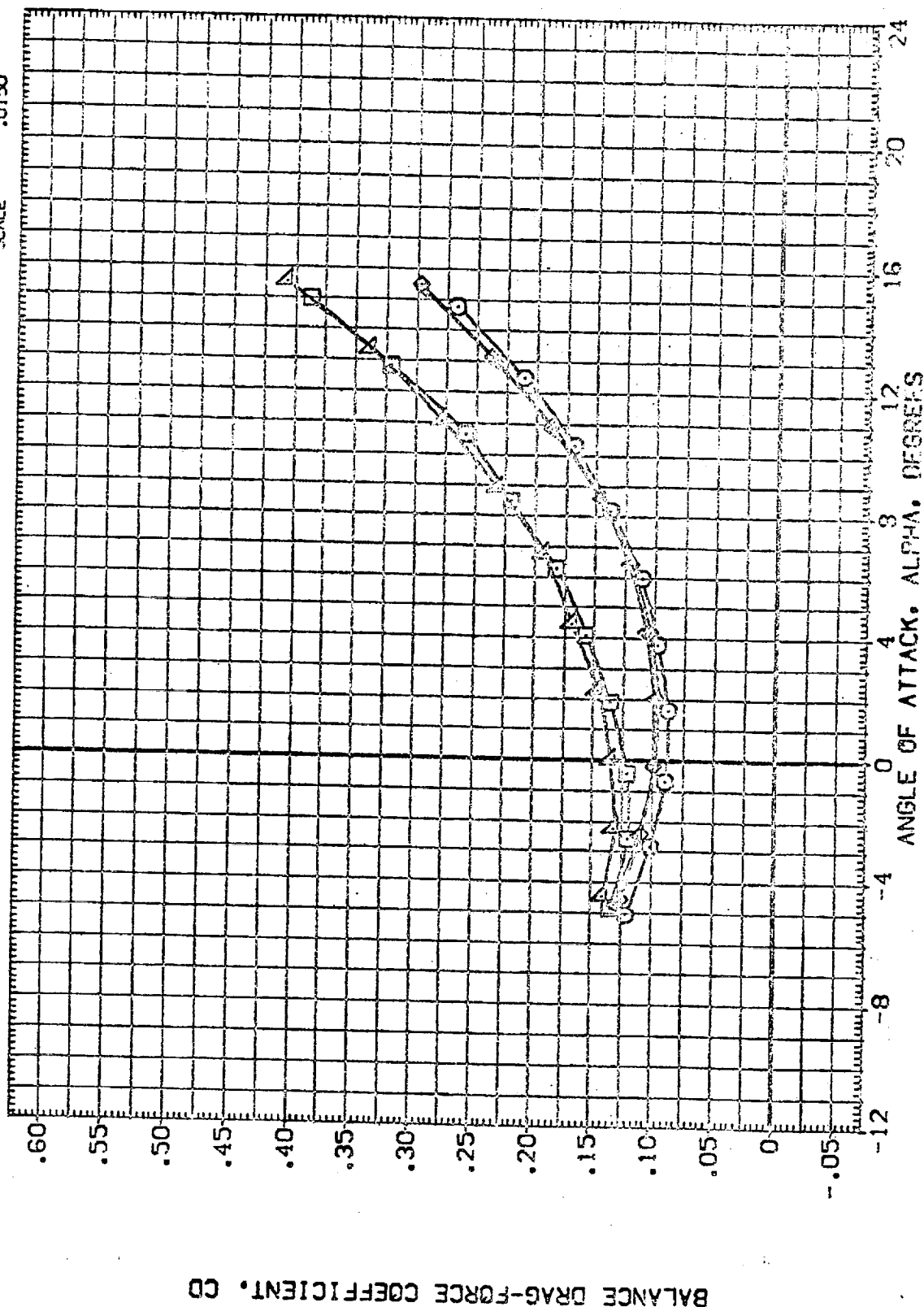


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

{CER001}    ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT+DUM 5TNG

{CER003}    DATA NOT AVAILABLE

{CER009}    DATA NOT AVAILABLE

{CER012}    ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT

{CER013}    DATA NOT AVAILABLE

BETA    ELEVON    SDF LAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    8053    50.FT.

LREF    .5935    FT.

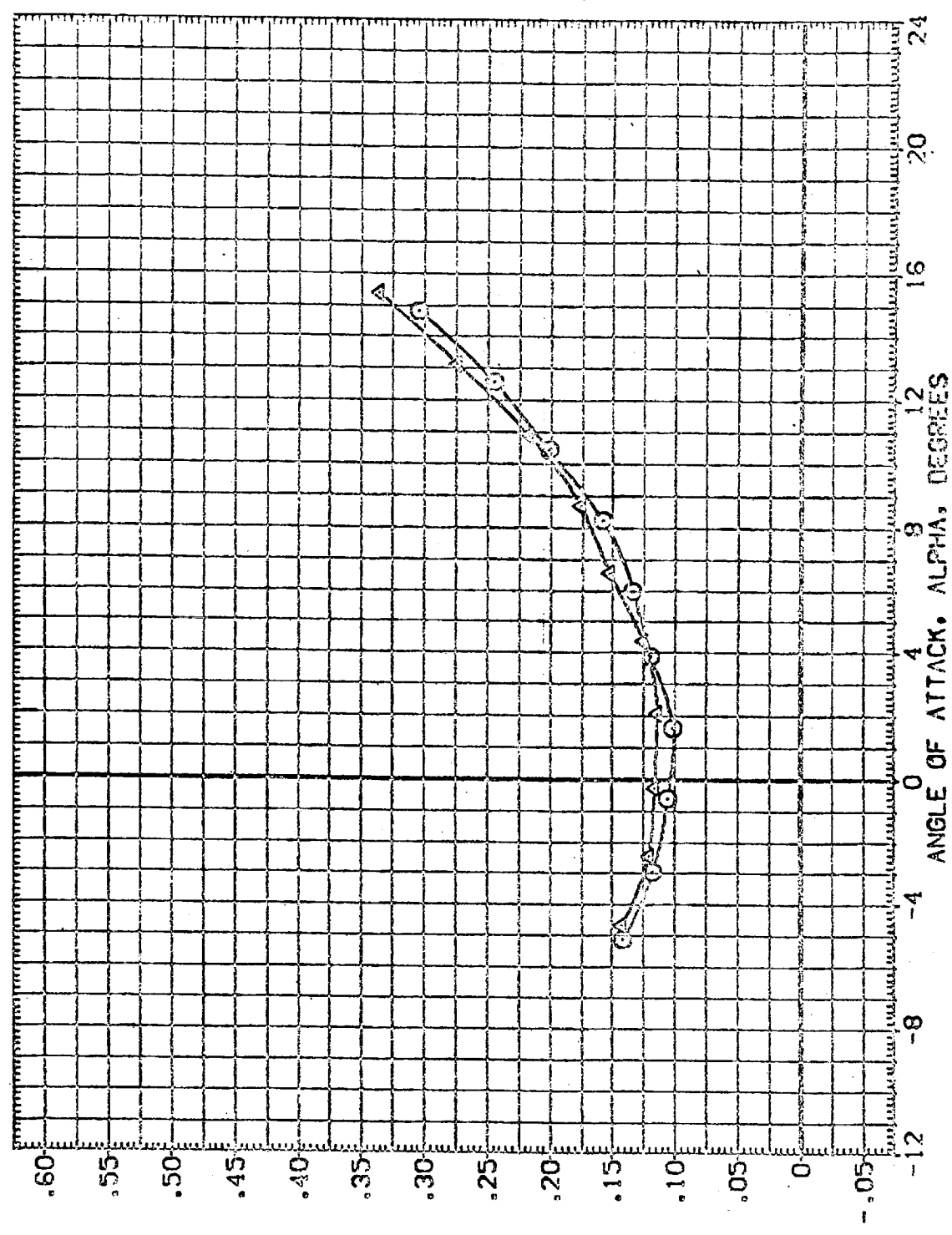
BREF    1.1710    FT.

XMRP    12.6235    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150



BALANCE DRAG-FORCE COEFFICIENT, CD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	COFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .0053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	ØREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.5255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

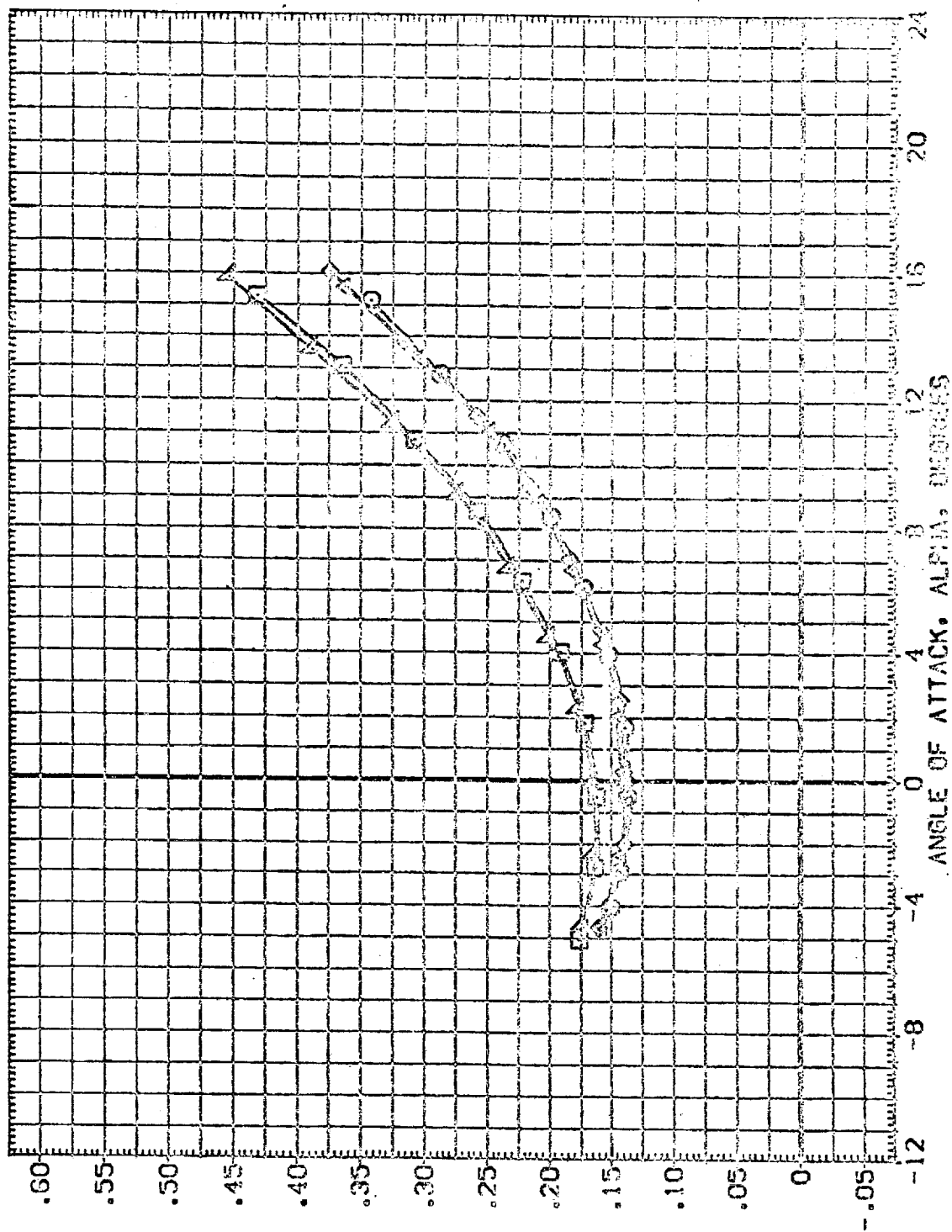


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CHMACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DATA	ELEVON	OSLAP
(CER001)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER002)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER003)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER004)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER005)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER006)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER007)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER008)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER009)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER010)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER011)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER012)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700
(CER013)	ARC 65-703 OAS3 DALLA-IN24 RS V81+STRUT+DUM STN3	.000	.000	-11.700

REFERENCE INFORMATION

REFERENCE INFORMATION	50. FT.	FT.	IN.
SREF	.8053		
LREF	.5935		
SREF	1.1710		
XREF	12.6255		
YREF	.0000		
ZREF	-.3750		
SCALE	.0150		

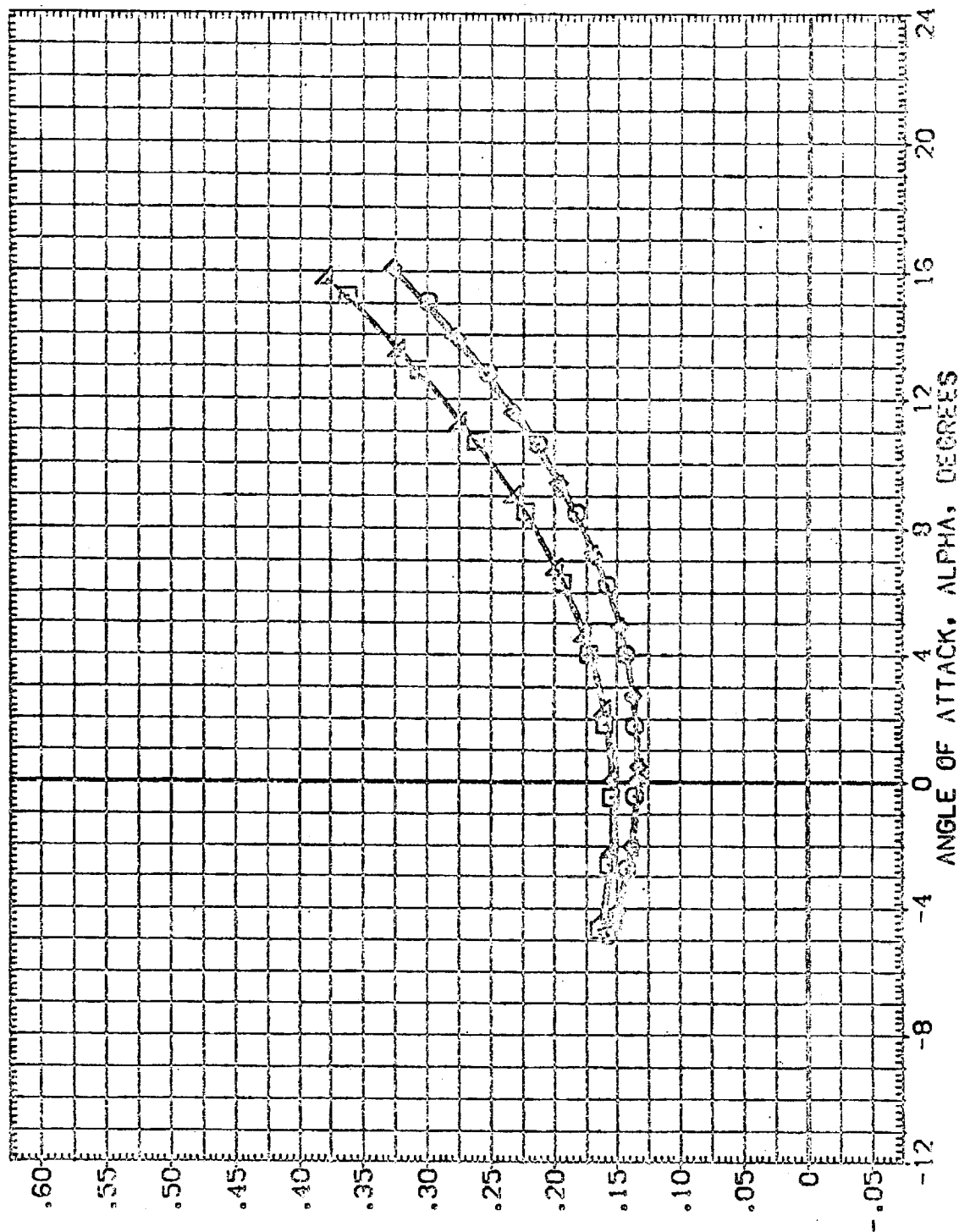


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CLIMACH = 1.50

REFERENCE INFORMATION  
 SREF .6053 59. FT.  
 LREF .5075 FT.  
 SREF 1.1710 FT. IN.  
 YMRP 12.6255 IN.  
 ZMRP .0050 IN.  
 SCALE -.3750 IN.

BETA ELEVON 30FLAP  
 .000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) ARC 66-709 0A59 0A11A-(N24 R5 V8)\*STRUT+0C1 STNG  
 (CER003) ARC 66-709 0A59 0A11A-(N24 R5 V8)\*STRUT+0JUM STNG  
 (CER009) ARC 66-709 0A59 0A11A-(N24 R5 V8)\*STRUT  
 (CER012) ARC 66-709 0A59 0A11A-(R5 V8)\*STRUT  
 (CER013) ARC 66-709 0A59 0A11A-(R5 V8)\*STRUT

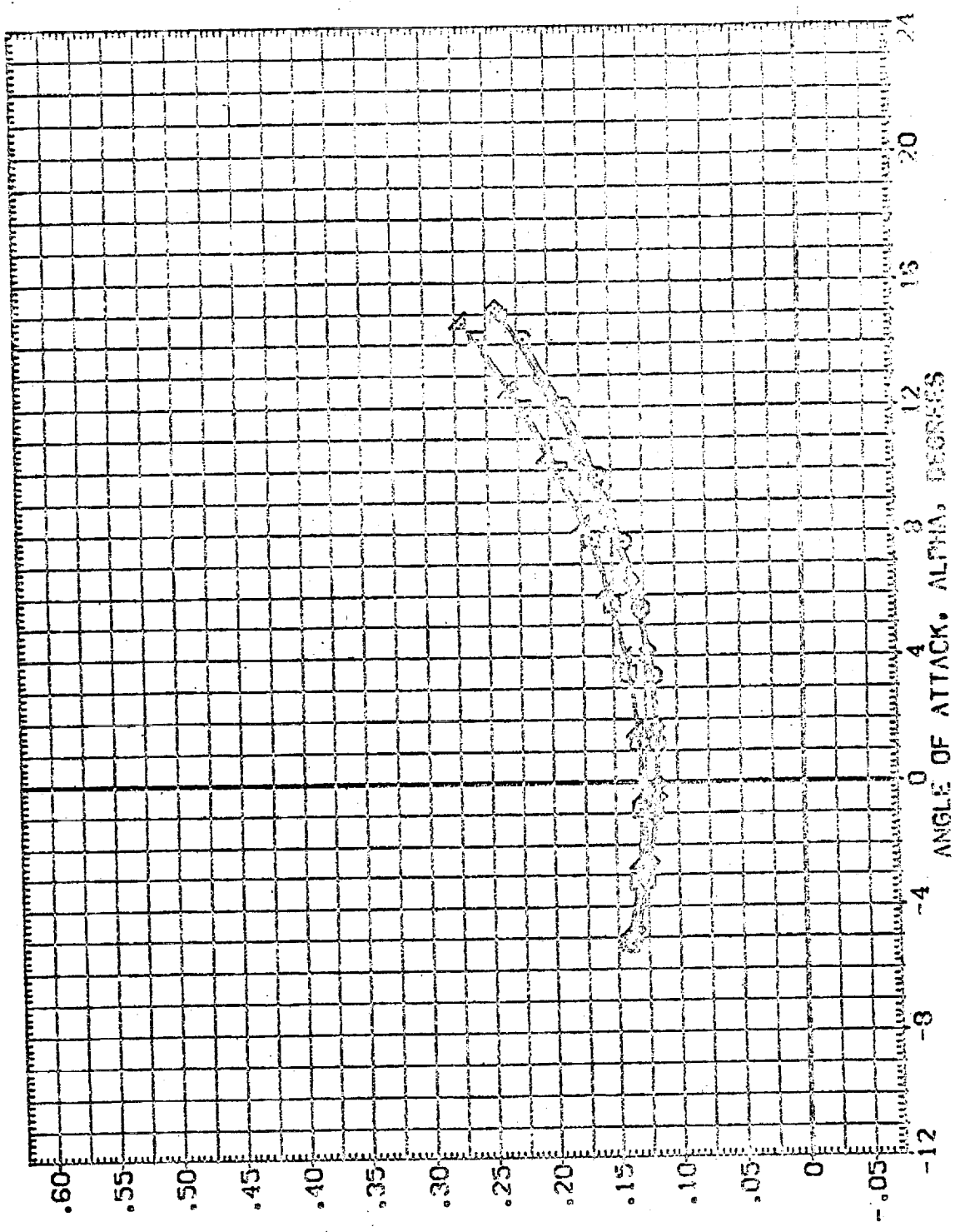


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL    CODE    ELEVATION DESCRIPTION    BETA    ELEVON    %SLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CODE	ELEVATION DESCRIPTION	BETA	ELEVON	%SLAP	REFERENCE INFORMATION
[CER001]	ARC 55-703	DA11A-(N24 RS V3)+STRUT+CUM STNG	.000	.000	-11.700	SREF .5053 50 FT.
[CER003]	ARC 55-703	DA11A-(N24 RS V3)+STRUT+CUM STNG	.000	.000	-11.700	LREF .5935 FT.
[CER009]	ARC 55-703	DA11A-(N24 RS V3)+STRUT	.000	.000	-11.700	SREF 1.1710 IN.
[CER012]	ARC 55-703	DA11A-(RS V3)+STRUT	.000	.000	-11.700	XREF 12.6255 IN.
[CER013]	ARC 55-703	DA11A-(RS V3)+STRUT	.000	.000	-11.700	YREF .0000 IN.
						ZREF -.3750 IN.
						SCALE .0150

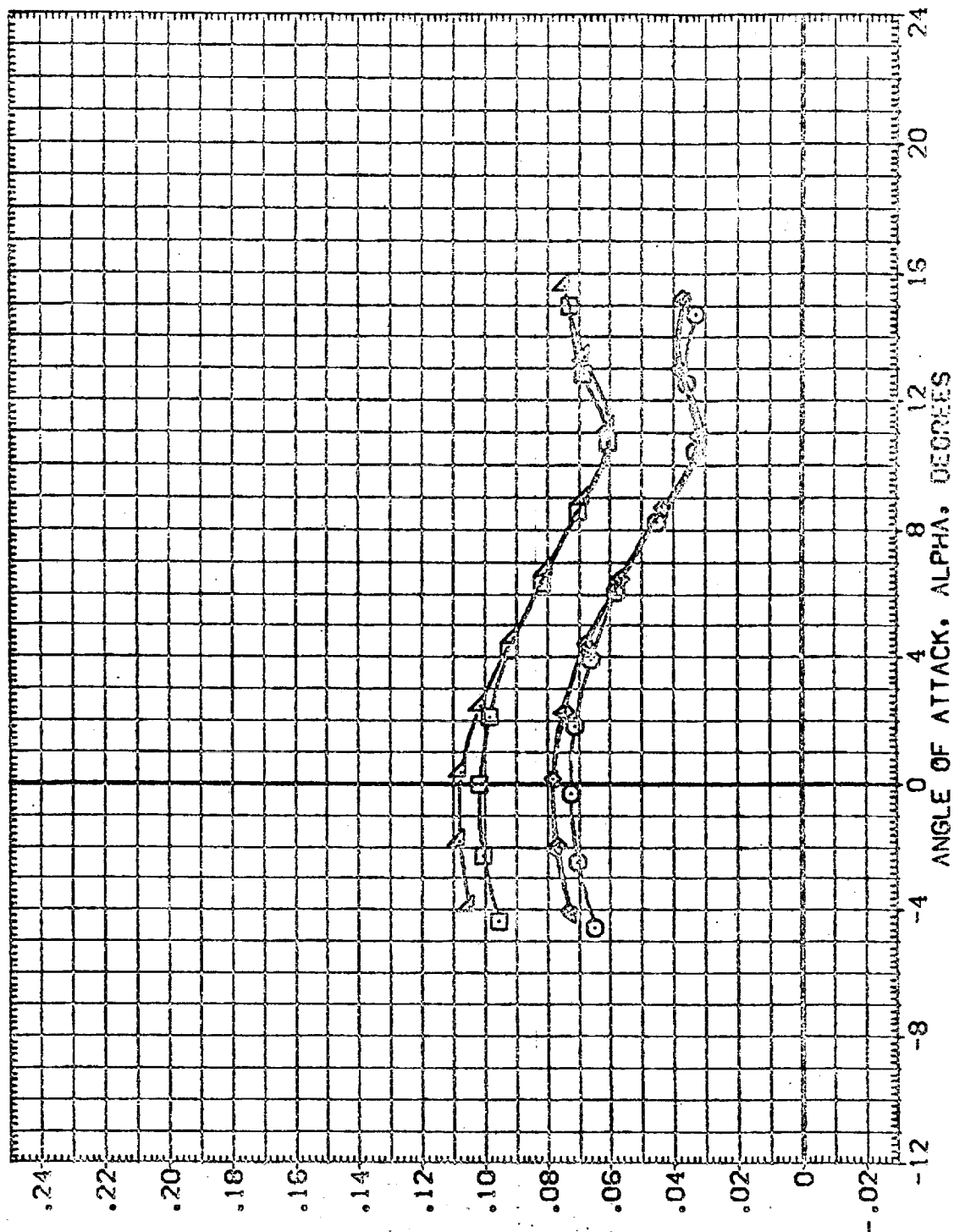


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    60FLAP

(CER001)    ARC 66-709 QAS9 CA11A-(N24 RS V3)+STRUT+DUM STNG    .000    .000    -11.700

(CER003)    ARC 66-709 QAS9 CA11A-(N24 RS V3)+STRUT+DUM STNG    .000    15.000    -11.700

(CER009)    DATA NOT AVAILABLE    .000    .000    -11.700

(CER012)    ARC 66-709 QAS9 CA11A-(RS V3)+STRUT    .000    .000    -11.700

(CER013)    ARC 66-709 QAS9 CA11A-(RS V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    59. FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

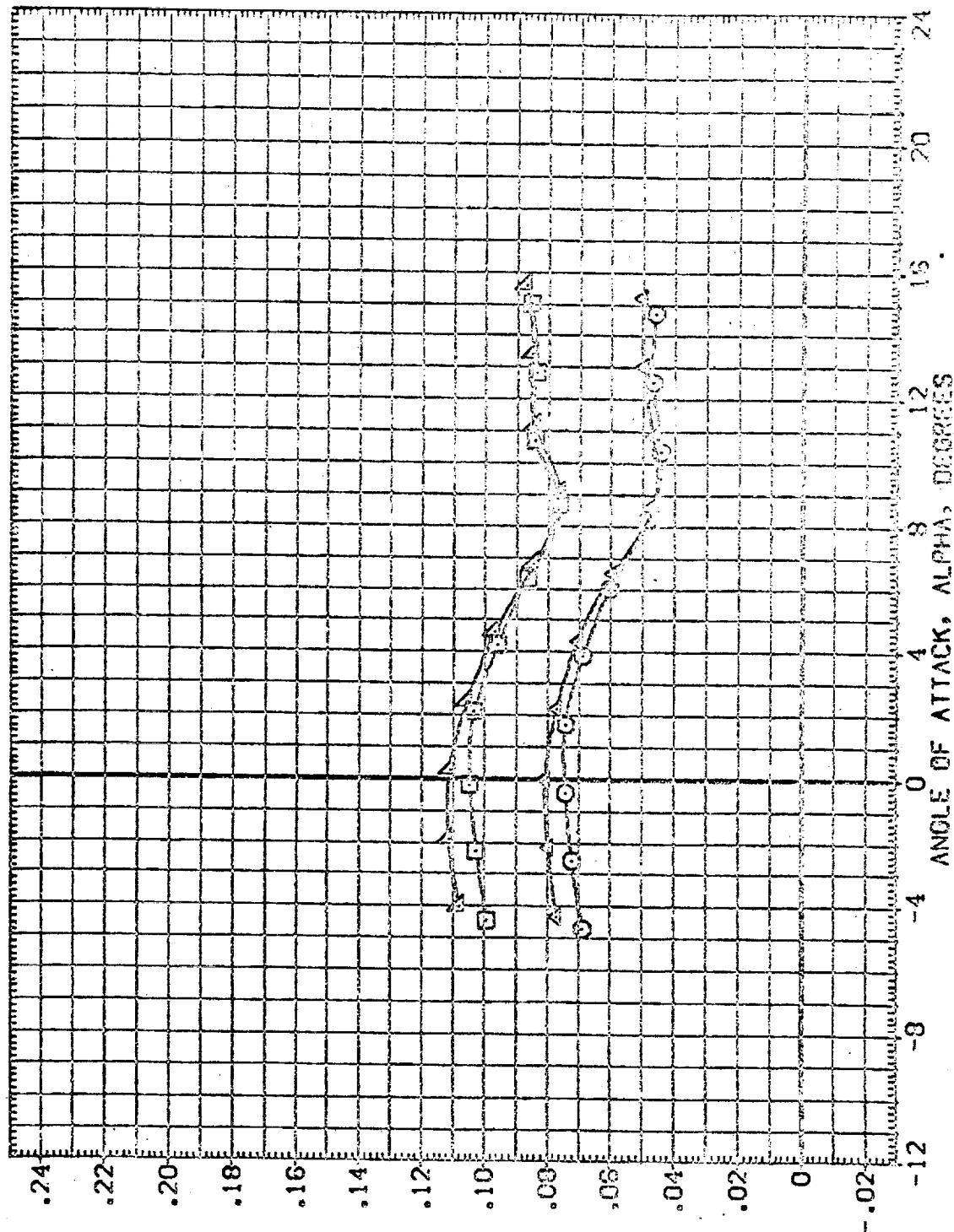


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

REFERENCE INFORMATION

SREF	.6053	50. FT.
LNREF	.5935	FT.
SRREF	1.1710	IN.
XRPR	12.6235	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON

ELEVON	REFLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

DATA SET SYMBOL CONFIGURATION IDENTIFICATION

(CER001)	ARC 55-703 CASO DALLA-(N24 R5 V81)+STRUT+DUM STNG
(CER003)	DATA NOT AVAILABLE
(CER005)	DATA NOT AVAILABLE
(CER012)	ARC 55-703 CASO DALLA-(R5 V81)+STRUT
(CER013)	DATA NOT AVAILABLE

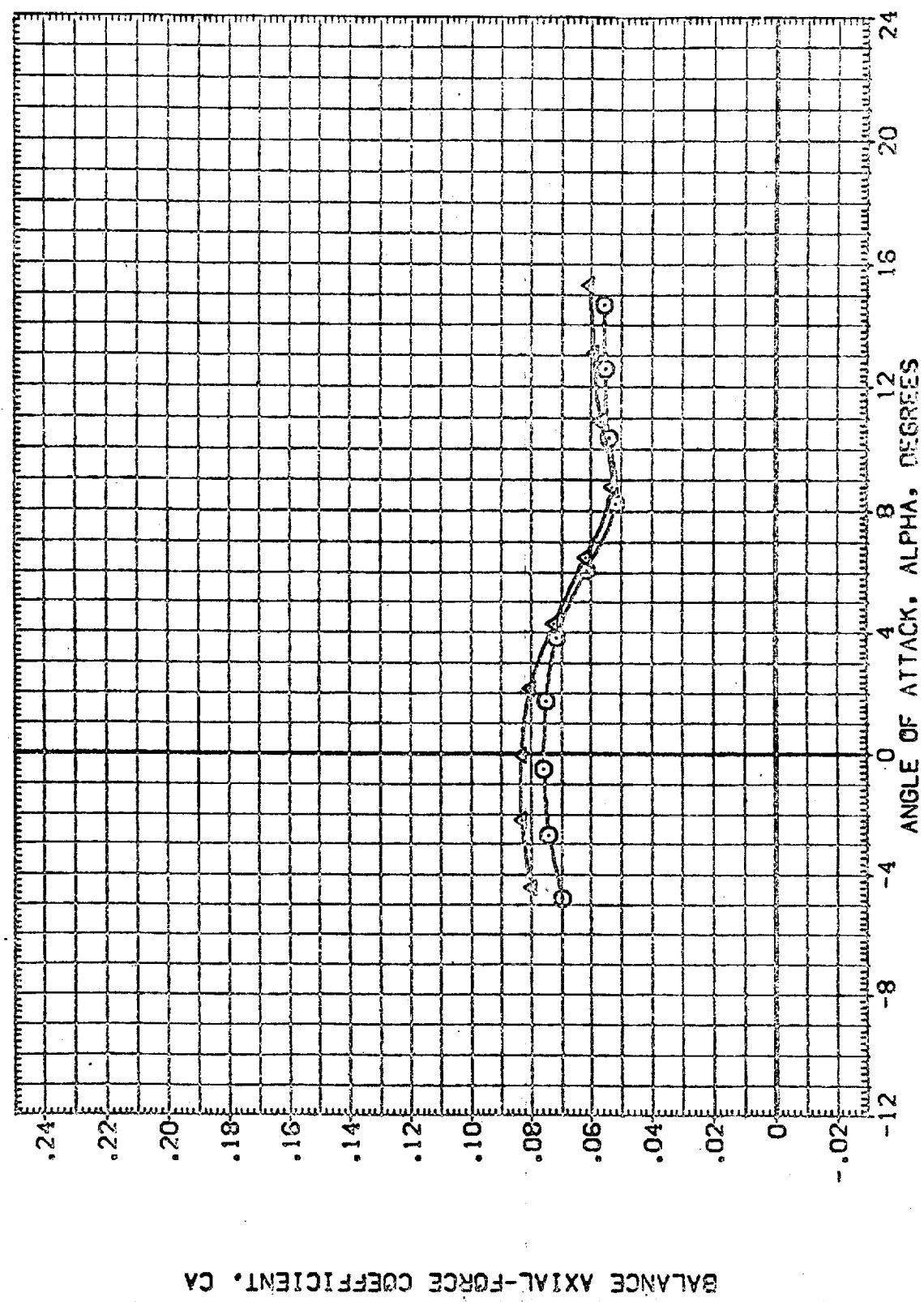


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	93CLAP	REFERENCE INFORMATION
[CER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+0.41 STNG	.000	.000	-11.700	SREF .6053 50.FT.
[CER003]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+0.41 STNG	.000	.000	-11.700	LREF .5935 FT.
[CER008]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
[CER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XREF 12.5255 IN.
[CER013]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YREF .0000 IN.
					ZREF -.3750 IN.
					SCALE .0150

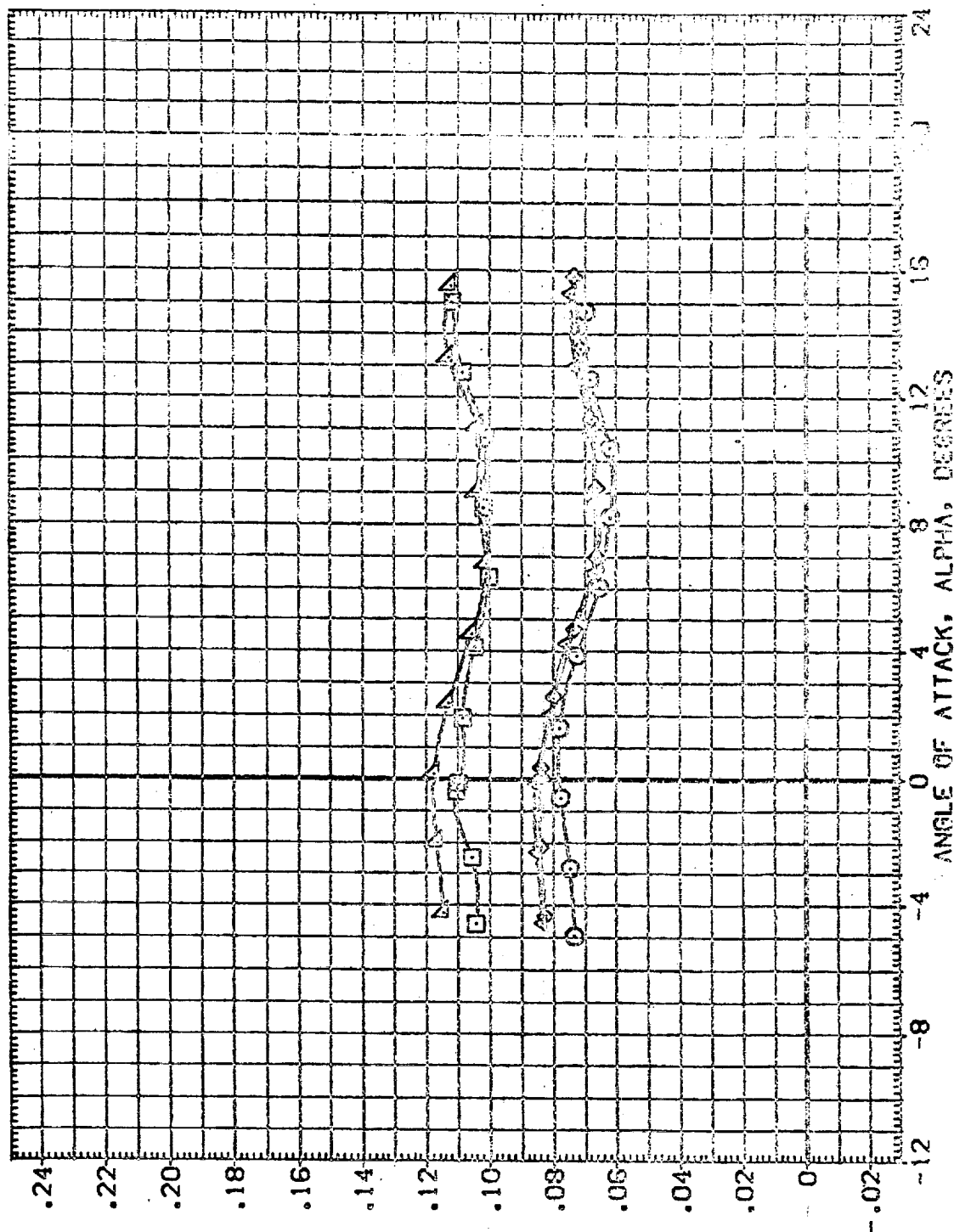


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET OVERL  
 {USER001}  
 {USER002}  
 {USER003}  
 {USER004}  
 {USER005}

CONFIGURATION DESCRIPTION  
 ARC 50-700 0450 0411A-(024 05 00)+STRUT+0UM STING  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

ETA ELEVON 92-LAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF 50.53 50.53 FT.  
 LREF 59.35 59.35 FT.  
 BREF 1.1710 1.1710 IN.  
 XMRP 12.6255 12.6255 IN.  
 YMRP .0000 .0000 IN.  
 ZMRP -.3750 -.3750 IN.  
 SCALE .0150

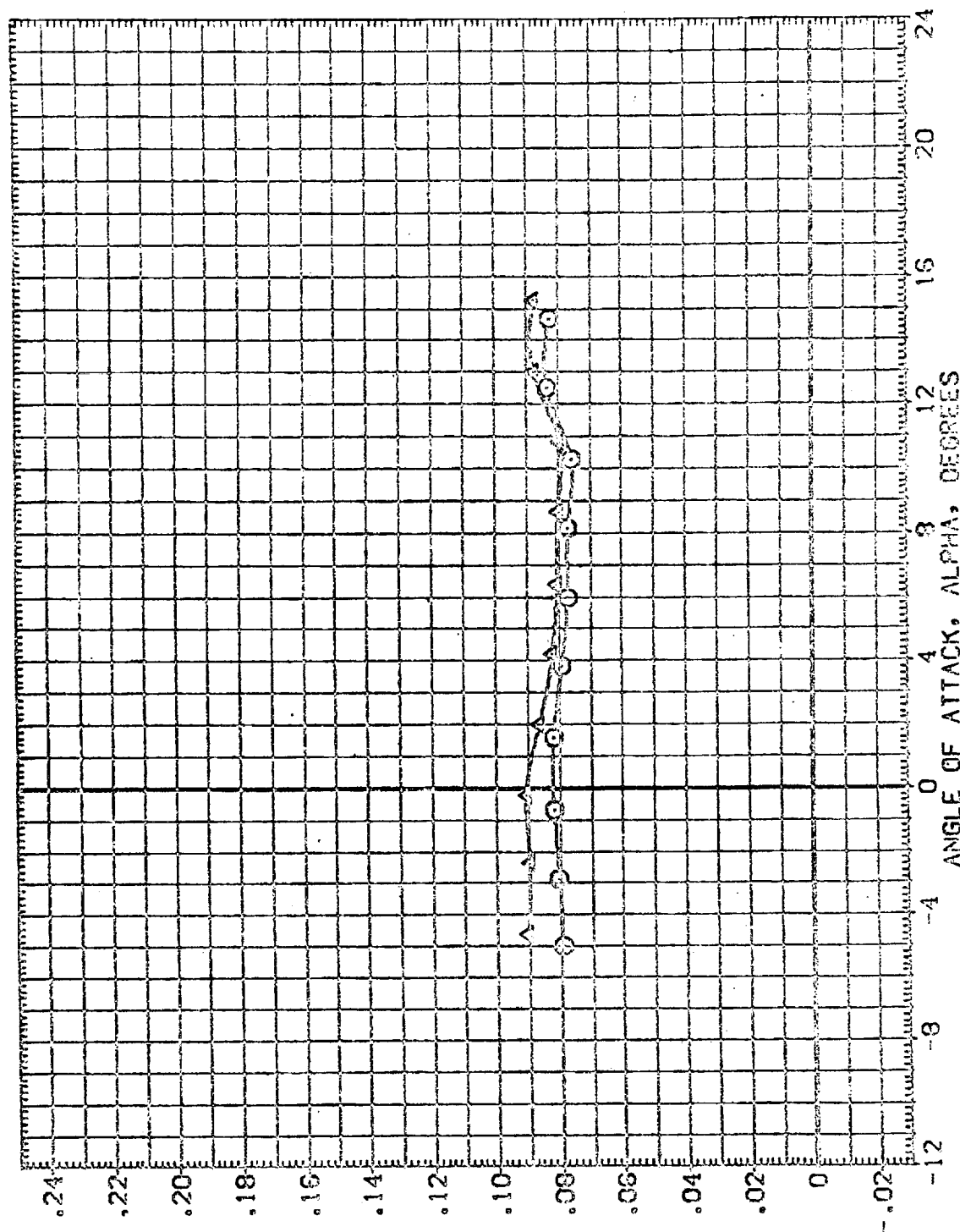


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .95

REFERENCE INFORMATION

REF	8053	50. FT.
LREF	5935	FT.
REF	11710	IN.
XMRP	12.8255	IN.
YMRP	10000	IN.
ZMRP	-3750	IN.
SCALE	.0150	

BETA

ELEVON	8074P
BETA	.000
ELEVON	.000
BETA	.000
ELEVON	.000
BETA	.000
ELEVON	.000
BETA	.000

CONFIGURATION DESCRIPTION

ARC 66-709 DASS 0A11A-(N24 R3 V81+STRUT+DUM STING  
 ARC 66-709 DASS 0A11A-(N24 R3 V81+STRUT+DUM STING  
 ARC 66-709 DASS 0A11A-(N24 R3 V81+STRUT  
 ARC 66-709 DASS 0A11A-(R3 V81+STRUT

DATA SET SYMBOL

{ CER001 }	□
{ CER003 }	○
{ CER009 }	△
{ CER012 }	◇
{ CER013 }	▽

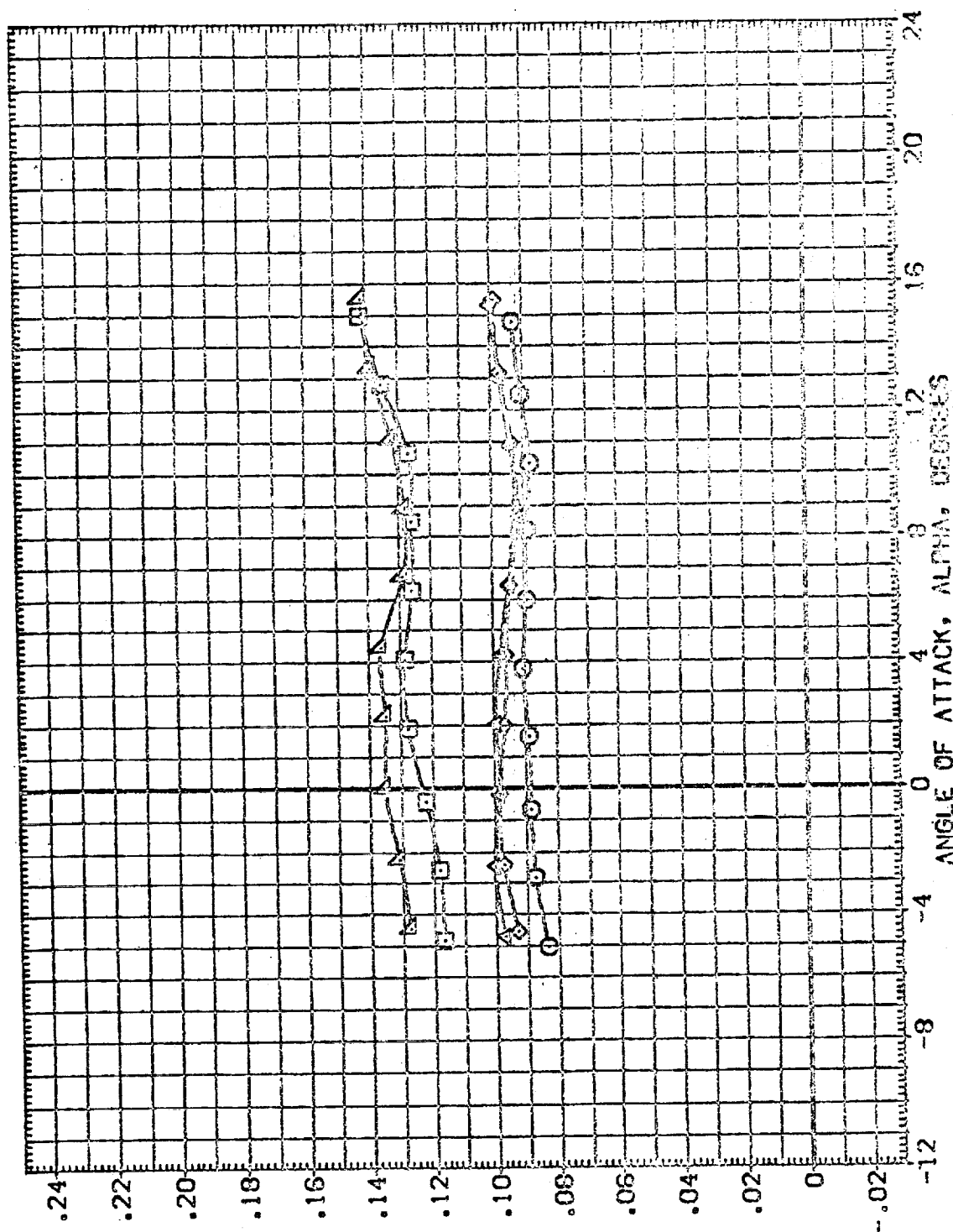


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 65-703 OAS9 DATA-(N24 RS V9)+STRUT+QUM STING  
 (CER003) DATA NOT AVAILABLE  
 (CER009) DATA NOT AVAILABLE  
 (CER012) ARC 65-709 OAS9 DATA-(RS V9)+STRUT  
 (CER013) DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF 6053 50 FT.  
 UREF 5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.5255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 65-703 OAS9 DATA-(N24 RS V9)+STRUT+QUM STING  
 (CER003) DATA NOT AVAILABLE  
 (CER009) DATA NOT AVAILABLE  
 (CER012) ARC 65-709 OAS9 DATA-(RS V9)+STRUT  
 (CER013) DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF 6053 50 FT.  
 UREF 5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.5255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

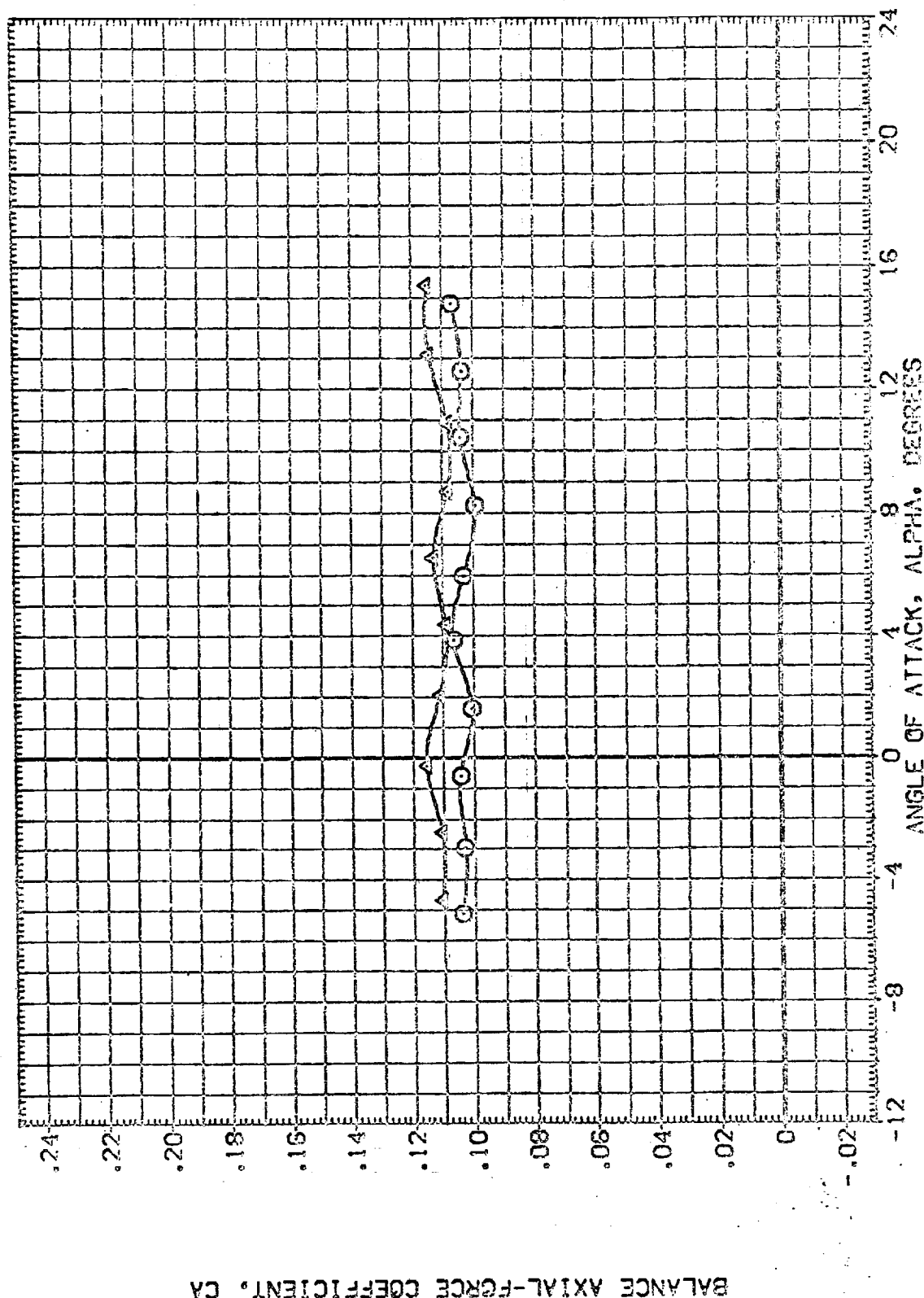


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    SDFLAP

REF. INFORMATION

{ CER001 }    ARC 66-709 QAS9 CA11A-(N24 RS V8)\*STRUT+QJM STING    .000    .000    -11.700  
 { CER003 }    ARC 66-709 QAS9 CA11A-(N24 RS V8)\*STRUT+QJM STING    .000    .000    -11.700  
 { CER009 }    ARC 66-709 QAS9 CA11A-(N24 RS V8)\*STRUT    .000    .000    -11.700  
 { CER012 }    ARC 66-709 QAS9 CA11A-(RS V8)\*STRUT    .000    .000    -11.700  
 { CER013 }    ARC 66-709 QAS9 CA11A-(RS V8)\*STRUT    .000    .000    -11.700

SREF    .6053    59.4 FT.  
 LREF    .5935    FT.  
 BREF    1.1710    IN.  
 XPRP    12.6235    IN.  
 YPRP    .0000    IN.  
 ZPRP    -.3750    IN.  
 SCALE    .0150

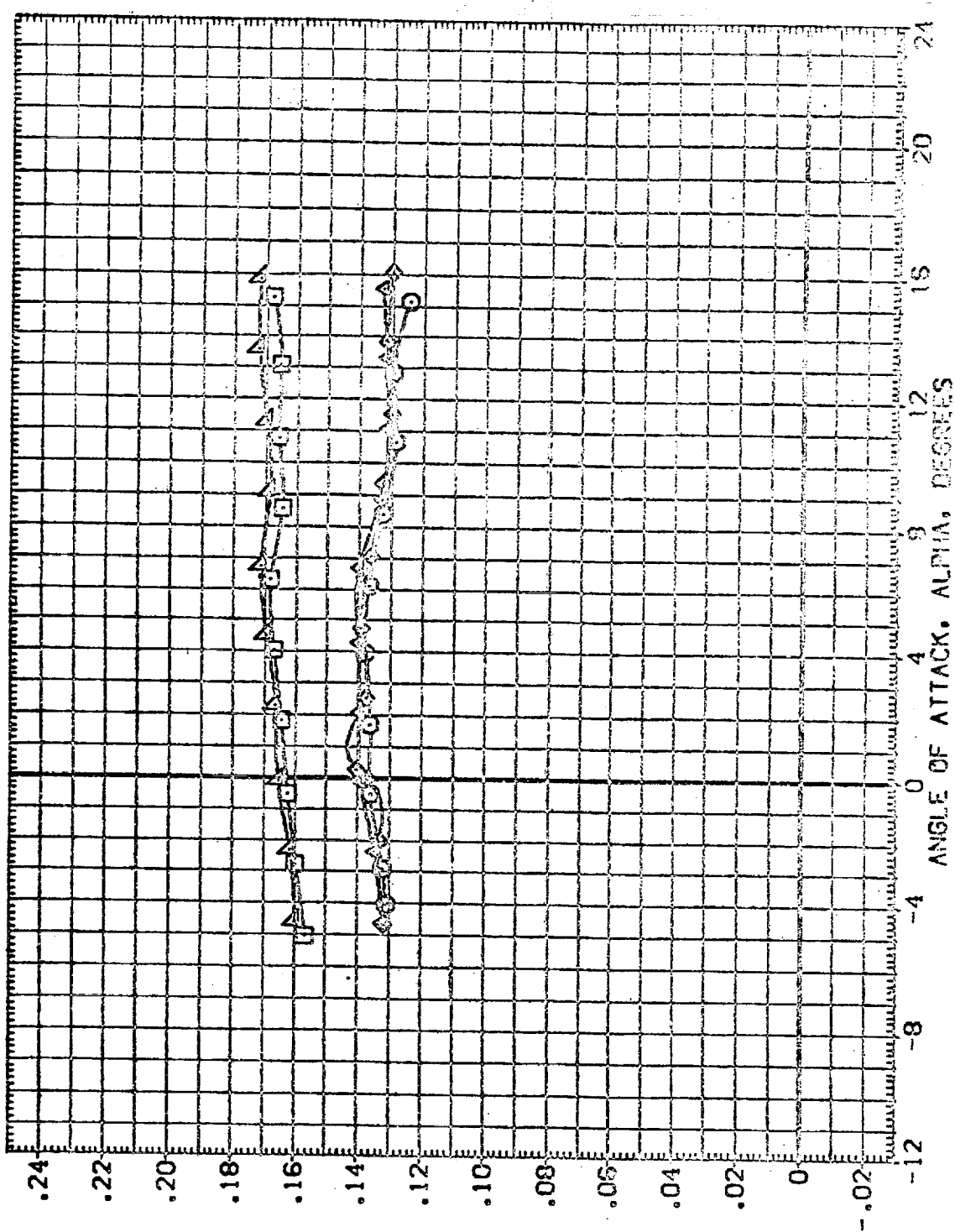


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



REFERENCE INFORMATION

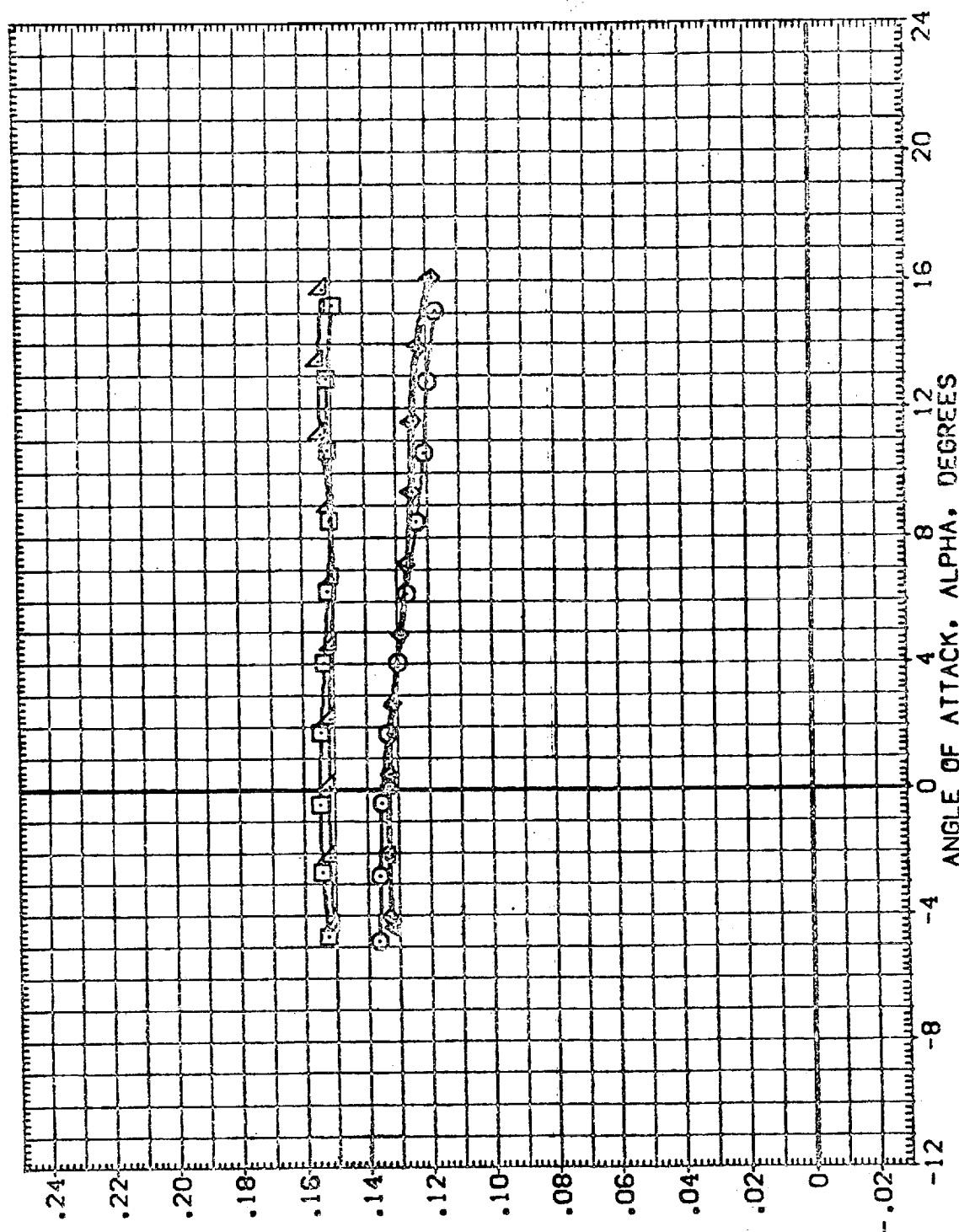
SREF	.8053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.5255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000	BOCLAP
	.000	-11.700
	15.000	-11.700
	.000	-11.700
	.000	-11.700
	15.000	-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)	ARC 65-703 0A59 0A11A-(N24 RS V81)+STRUT+0.01 STNG
(CER003)	ARC 65-703 0A59 0A11A-(N24 RS V81)+STRUT+0.01 STNG
(CER009)	ARC 65-703 0A59 0A11A-(N24 RS V81)+STRUT
(CER012)	ARC 65-703 0A59 0A11A-(RS V81)+STRUT
(CER013)	ARC 65-703 0A59 0A11A-(RS V81)+STRUT



BALANCE AXIAL-FORCE COEFFICIENT,  $C_A$

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBL. CONFIGURATION DESCRIPTION

{CER001} ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT+OLM STNG

{CER003} ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT+OLM STNG

{CER009} ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT

{CER012} ARC 66-709 0A59 0A11A-(RS V81)\*STRUT

{CER013} ARC 66-709 0A59 0A11A-(RS V81)\*STRUT

BETA ELEVON SOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .8053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

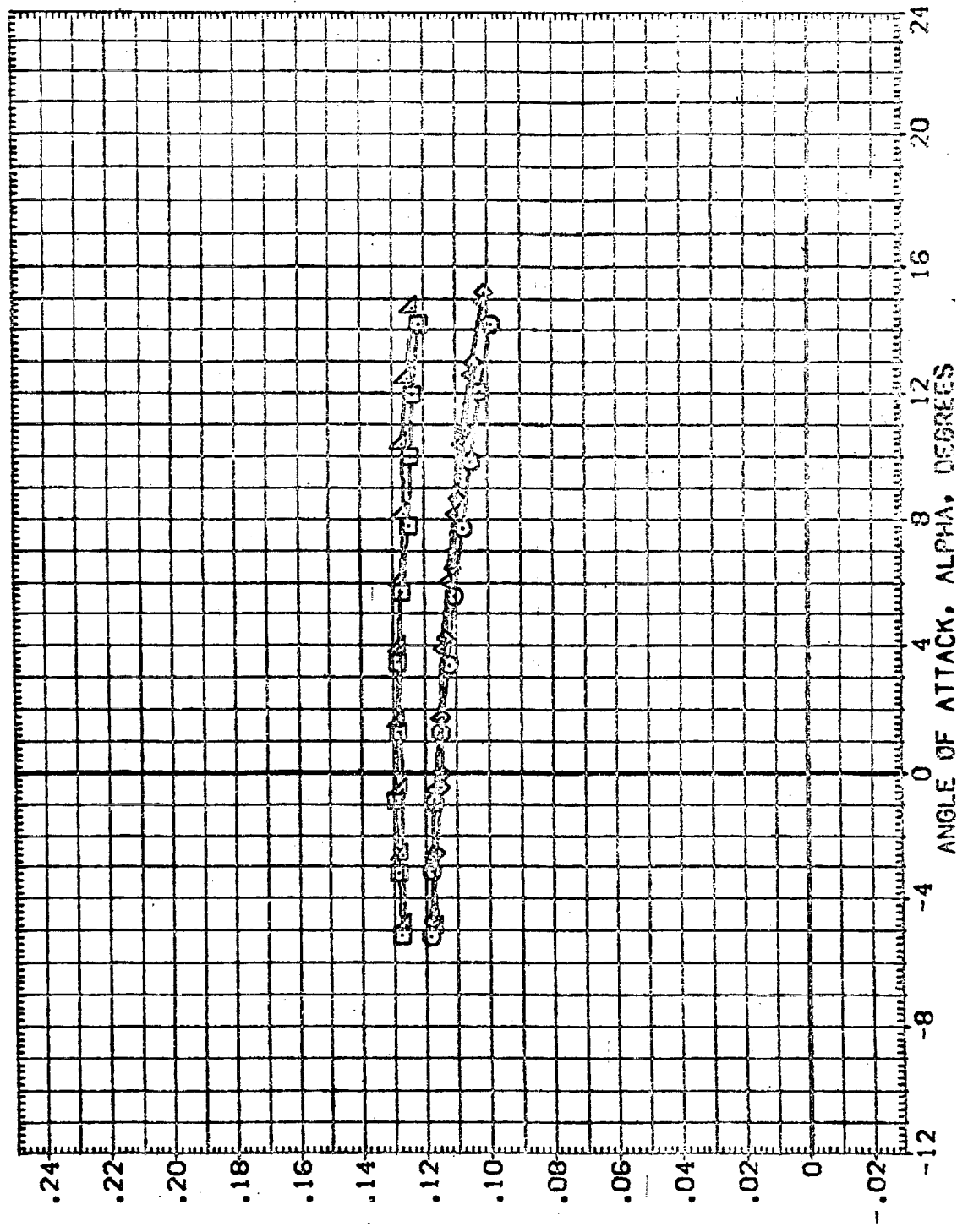


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

REFERENCE INFORMATION

	8053	8053	8053
	FT.	FT.	IN.
SREF	.6053	80.53	80.53
LREF	.5935	71.22	71.22
BREF	1.1710	140.52	140.52
XMRP	12.8255	153.91	153.91
YMRP	.0000	0.00	0.00
ZMRP	-.3750	-4.50	-4.50
SCALE	.0150		

BETA ELEVON SOFLAP

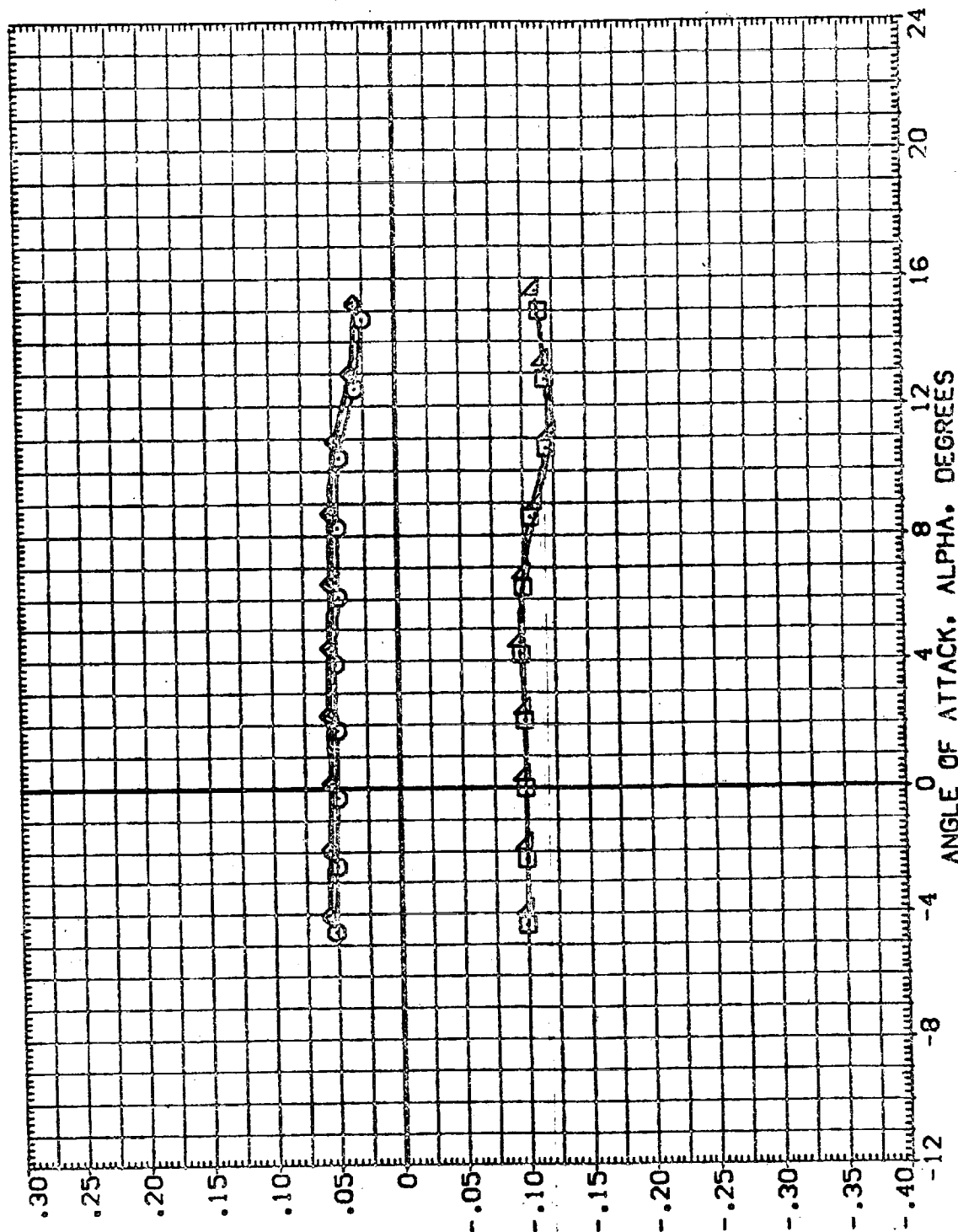
BETA	ELEVON	SOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

CONFIGURATION DESCRIPTION

ARC	86-709	0A59	0A11A-(N24 RS V81)*STRUT+DUM STNG
ARC	86-709 <td>0A59 <td>0A11A-(N24 RS V81)*STRUT+DUM STNG</td> </td>	0A59 <td>0A11A-(N24 RS V81)*STRUT+DUM STNG</td>	0A11A-(N24 RS V81)*STRUT+DUM STNG
ARC	86-709 <td>0A59 <td>0A11A-(N24 RS V81)*STRUT</td> </td>	0A59 <td>0A11A-(N24 RS V81)*STRUT</td>	0A11A-(N24 RS V81)*STRUT
ARC	86-709 <td>0A59 <td>0A11A-(RS V81)*STRUT</td> </td>	0A59 <td>0A11A-(RS V81)*STRUT</td>	0A11A-(RS V81)*STRUT
ARC	86-709 <td>0A59 <td>0A11A-(RS V81)*STRUT</td> </td>	0A59 <td>0A11A-(RS V81)*STRUT</td>	0A11A-(RS V81)*STRUT

DATA SET SYMBOL

DATA SET SYMBOL
(CER001)
(CER003)
(CER009)
(CER012)
(CER013)



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DISLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50 FT.
(CER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(CER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

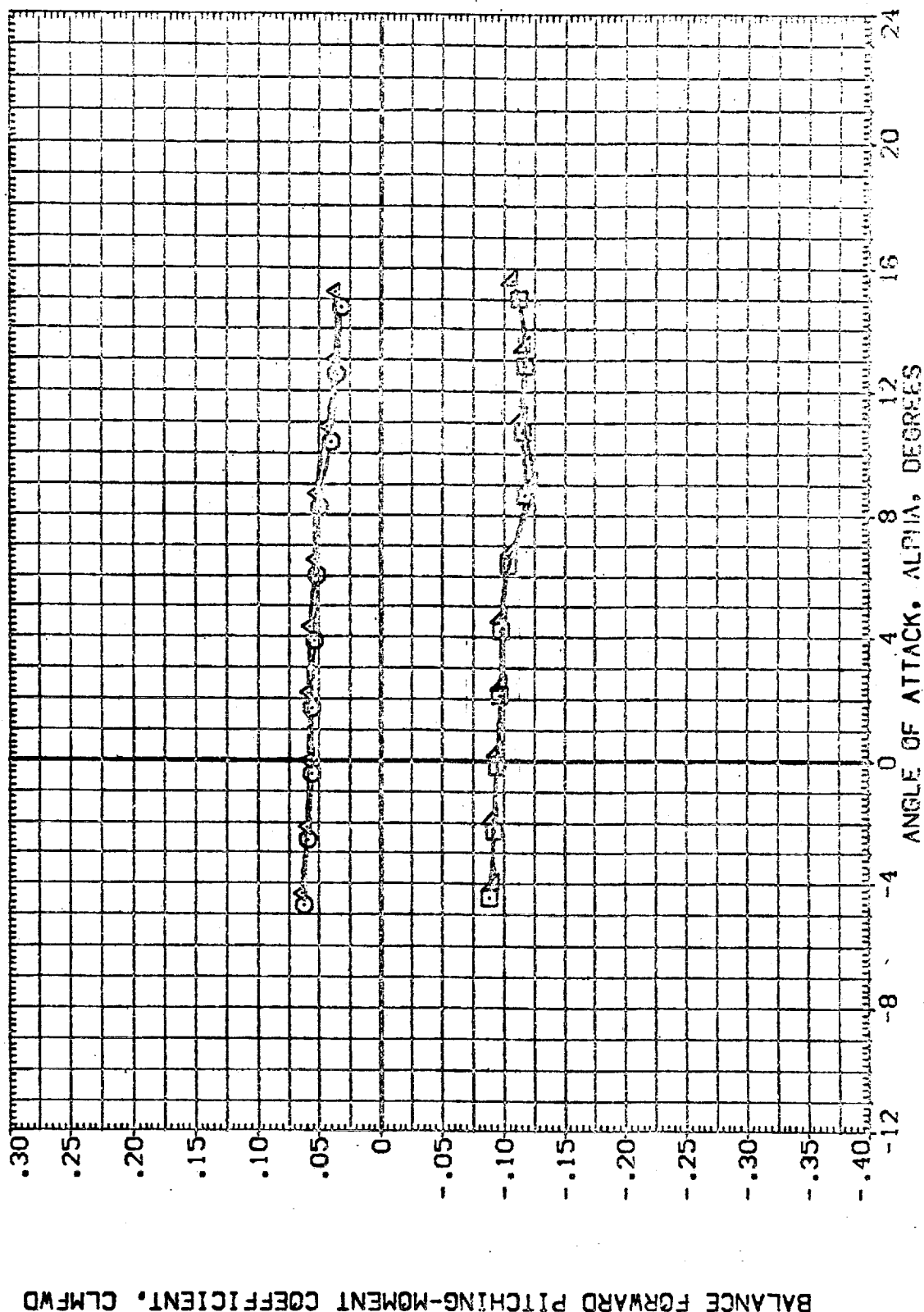


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 Q ARC 66-709 OAS9 0A11A-(N24 RS V8)\*STRUT+OUM STING  
 X DATA NOT AVAILABLE  
 Z ARC 66-709 OAS9 0A11A-(RS V8)\*STRUT  
 DATA NOT AVAILABLE

BETA ELEVON ECLAP  
 .000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 GREF .5059 50.5 FT.  
 LRLF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.8255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

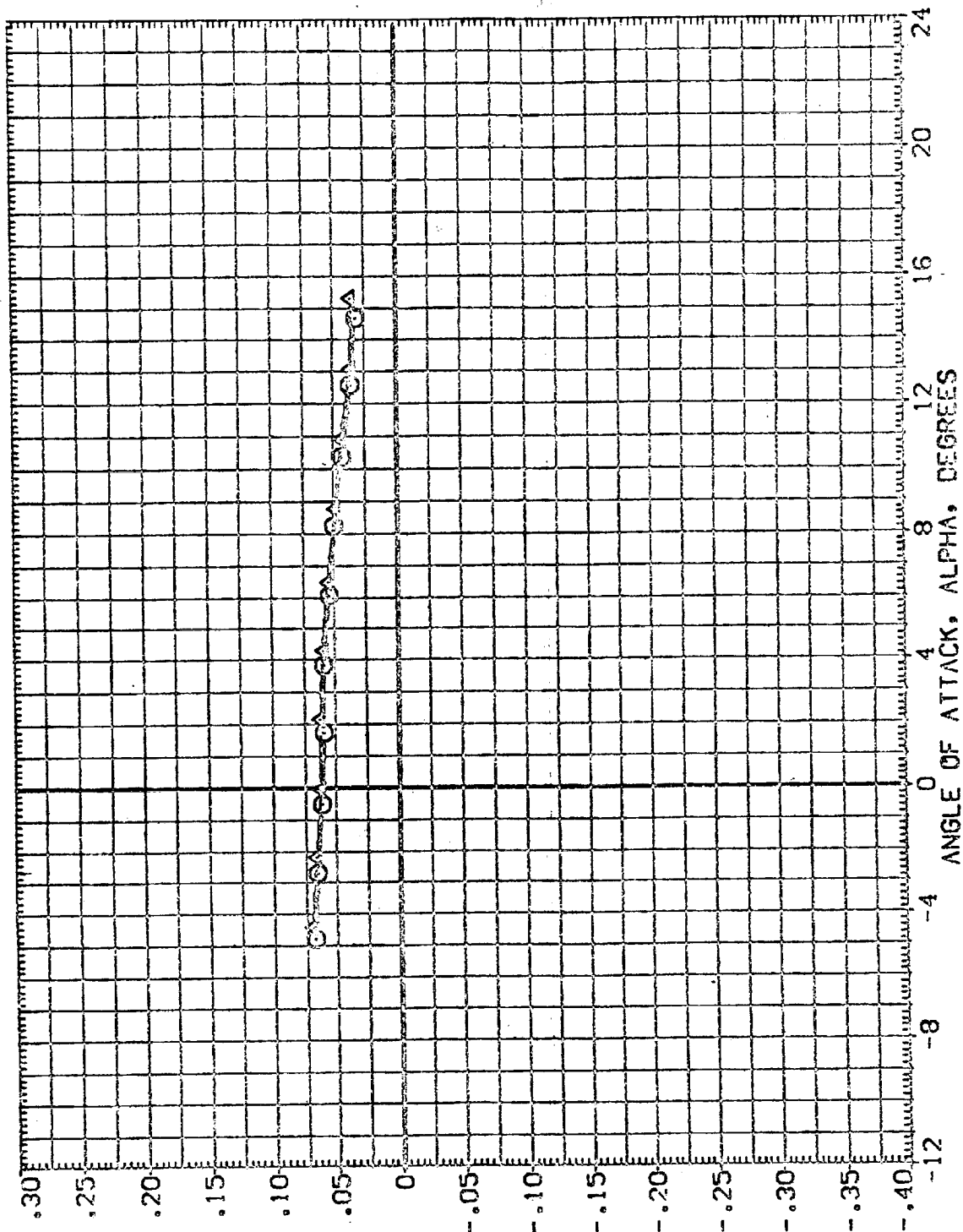


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	POSTLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N21 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 50.FT.
(CER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6235 IN.
(CER013)	ARC 66-709 QAS9 0A11A-(PS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

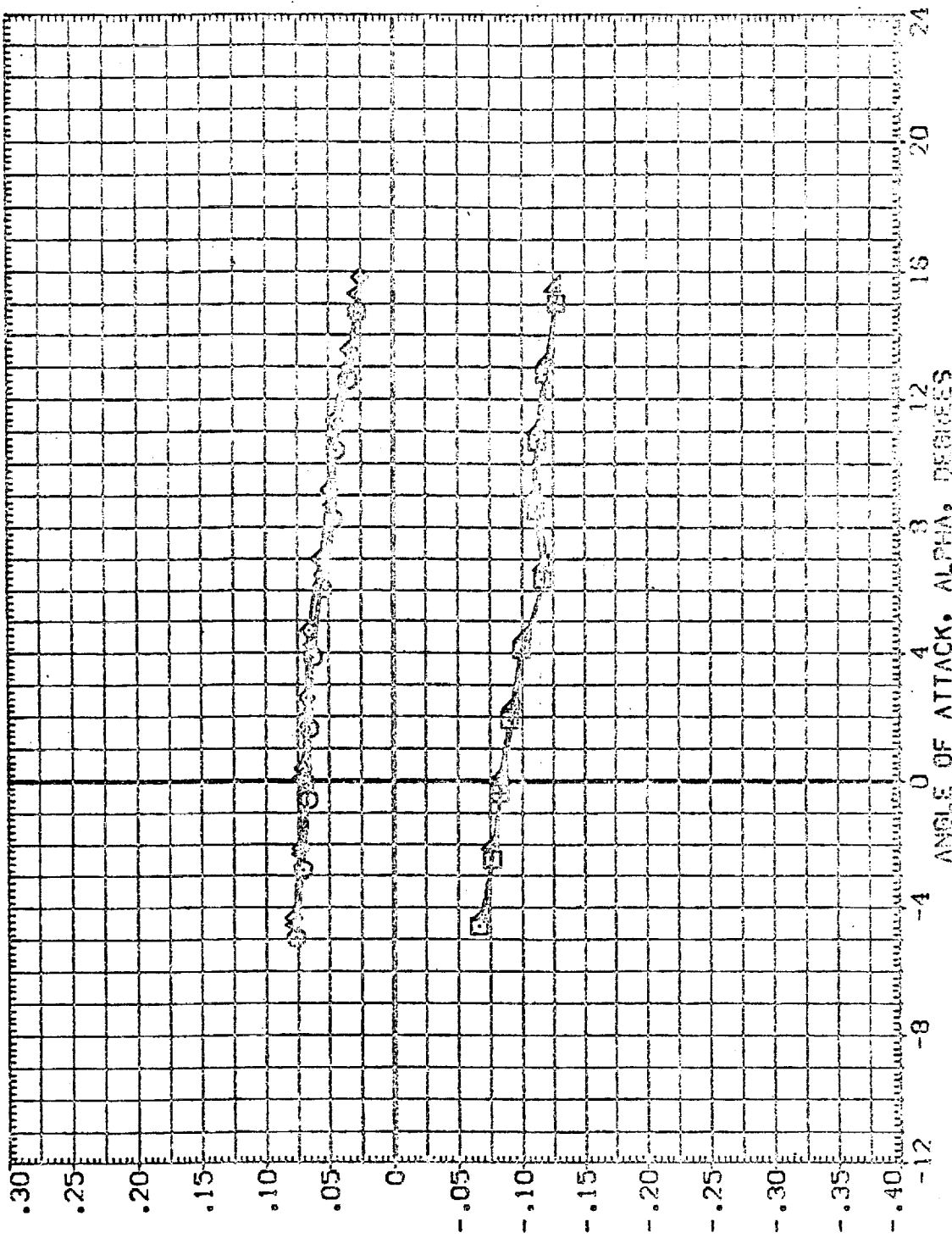


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(DJMACH = .90

REFERENCE INFORMATION

SREF	6053	50.FT.
LREF	5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON

SCALAP	-11.700
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

DATA SET SYMBOL

(CER001)	ARC 66-709 0A50 0A11A-(N24 RS V0)+STRUT+OLM STNG
(CER003)	DATA NOT AVAILABLE
(CER003)	DATA NOT AVAILABLE
(CER012)	ARC 66-709 0A59 0A11A-(RS V0)+STRUT
(CER013)	DATA NOT AVAILABLE

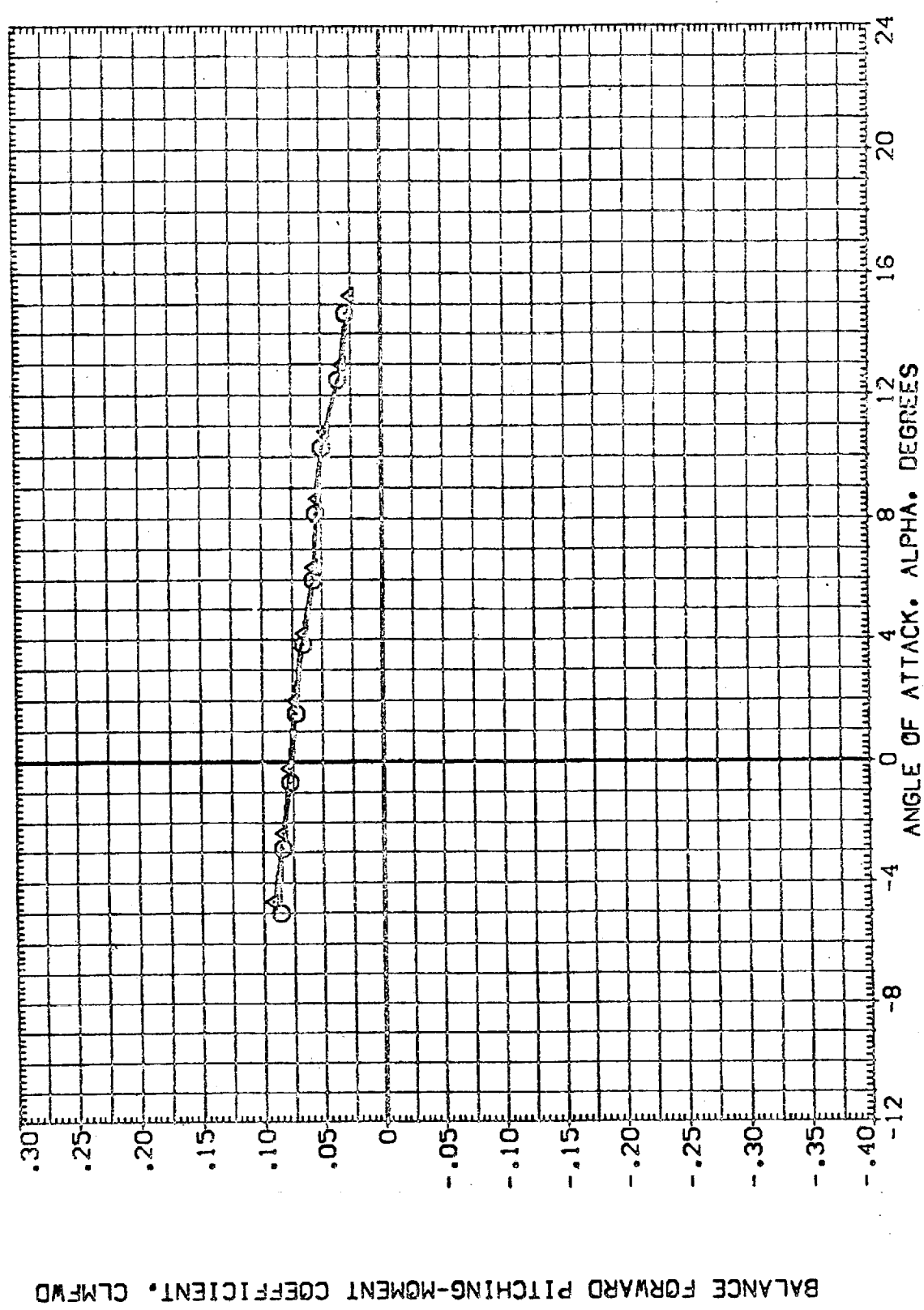


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    EOF LAP

(CER001)    ARC 66-709 QAS9 0A11A-(N24 RS V81)\*STRUT+DUM STNG    .000    .000    -11.700

(CER003)    ARC 66-709 QAS9 0A11A-(N24 RS V81)\*STRUT+DUM STNG    .000    15.000    -11.700

(CER009)    ARC 66-709 QAS9 0A11A-(N24 RS V81)\*STRUT    .000    .000    -11.700

(CER012)    ARC 66-709 QAS9 0A11A-(RS V81)\*STRUT    .000    .000    -11.700

(CER013)    ARC 66-709 QAS9 0A11A-(RS V81)\*STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .0053    SQ.FT.

LREF    .5935    FT.

GREF    1.1710    FT.

YMRP    12.6255    IN.

ZMRP    -.3750    IN.

SCALE    .0150

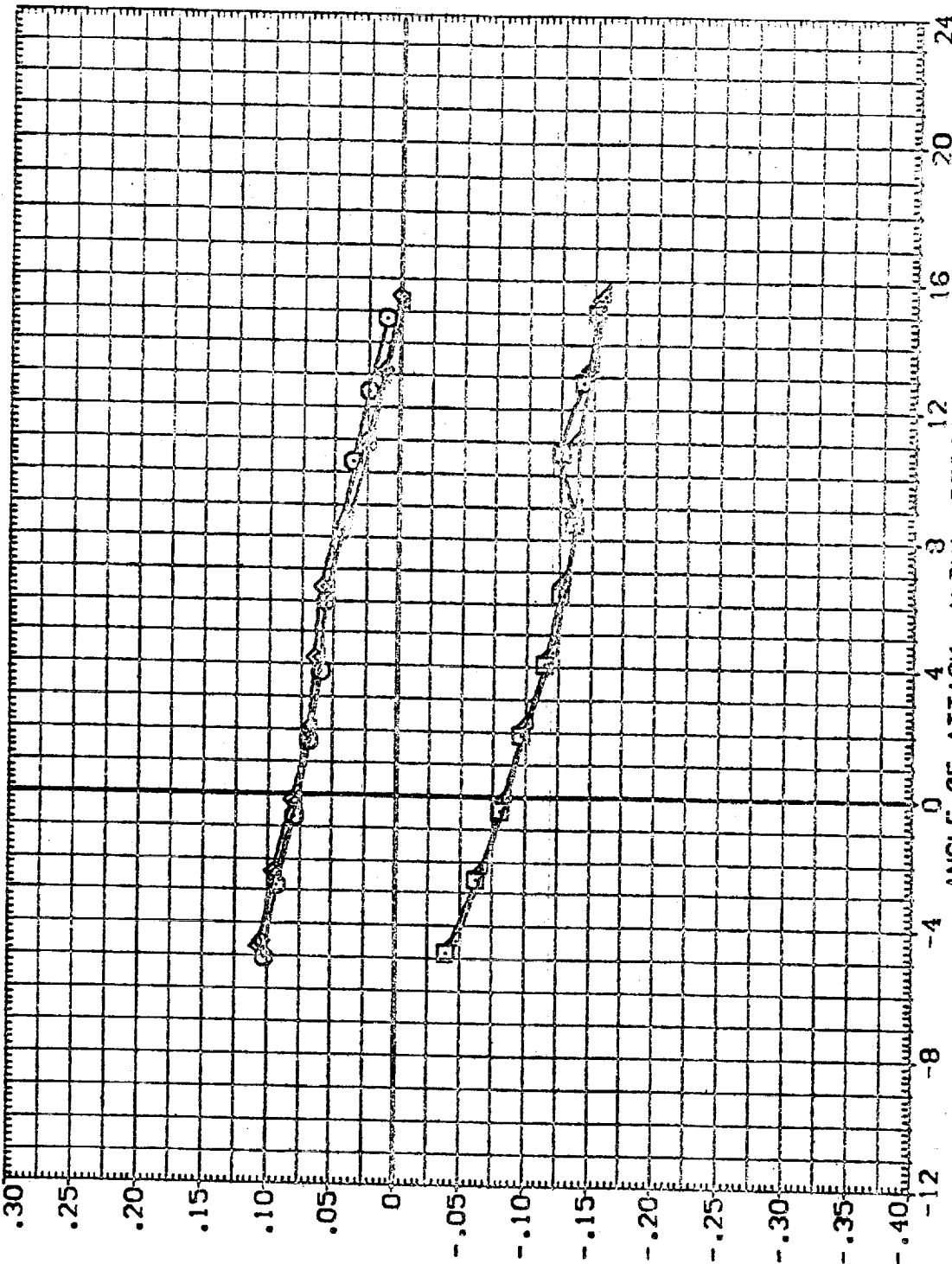


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PER001) ARC 65-709 OAS9 DAI1A-(N24 R5 V91)+STRUT+OUM STNG

(PER003) DATA NOT AVAILABLE

(PER009) DATA NOT AVAILABLE

(PER012) ARC 65-709 OAS9 DAI1A-(R5 V91)+STRUT

(PER013) DATA NOT AVAILABLE

BETA

ELEVON

SOCLAP

.000

.000

-11.700

.000

.000

-11.700

.000

.000

-11.700

.000

.000

-11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

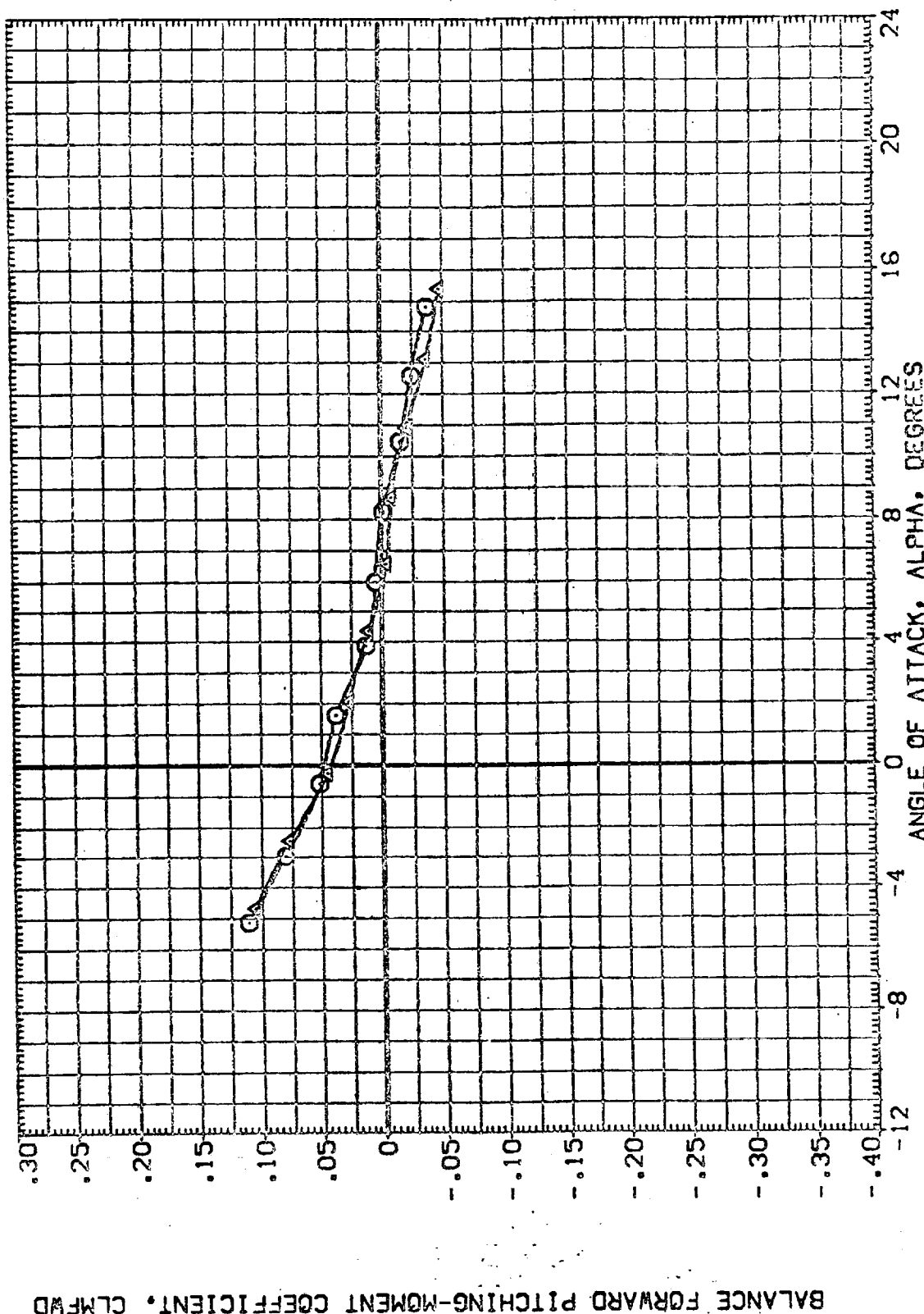


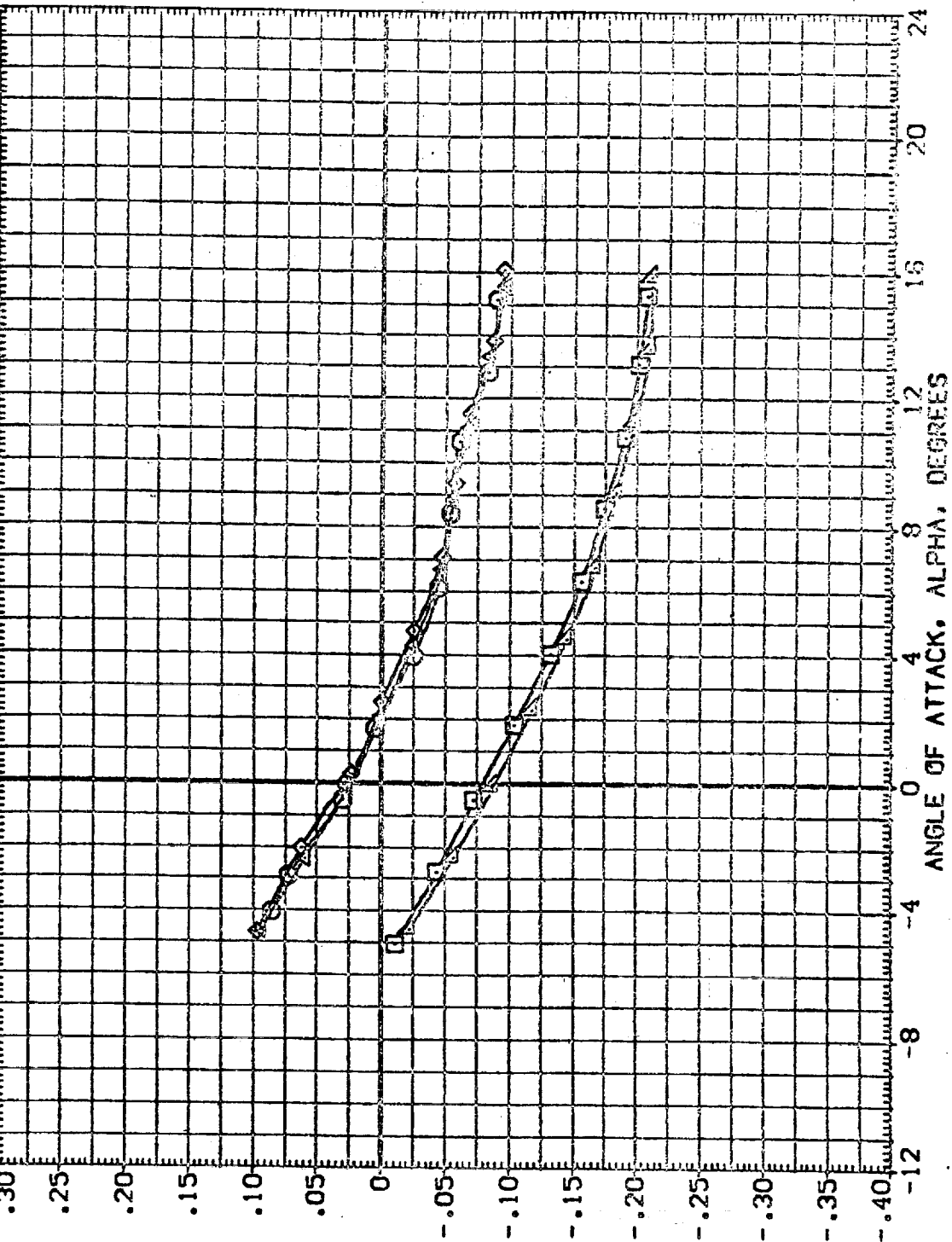
FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(GMACH = .95

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XHRP 12.6255 IN.  
 YHRP .0000 IN.  
 ZHRP -.3750 IN.  
 SCALE .0150

BETA ELEVON 80FLAP  
 .000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 {CER001} ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING  
 {CER003} ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING  
 {CER009} ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT  
 {CER012} ARC 66-709 0A59 0A11A-(R5 V8)+STRUT  
 {CER013} ARC 66-709 0A59 0A11A-(R5 V8)+STRUT



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BDFLAP

BETA	.000	-11.700
ELEVON	.000	-11.700
BDFLAP	.000	-11.700
	.000	-11.700
	.000	-11.700
	.000	-11.700
	.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709	QAS9	Q111A-(N24 RS V81)+STRUT+QJM STNG
ARC 66-709	QAS9	Q111A-(N24 RS V81)+STRUT+QJM STNG
ARC 66-709	QAS9	Q111A-(N24 RS V81)+STRUT
ARC 66-709	QAS9	Q111A-(RS V81)+STRUT
ARC 66-709	QAS9	Q111A-(RS V81)+STRUT

DATA SET SYMBOL

(CER001)	Q
(CER003)	Q
(CER009)	Q
(CER012)	Q
(CER013)	Q

BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

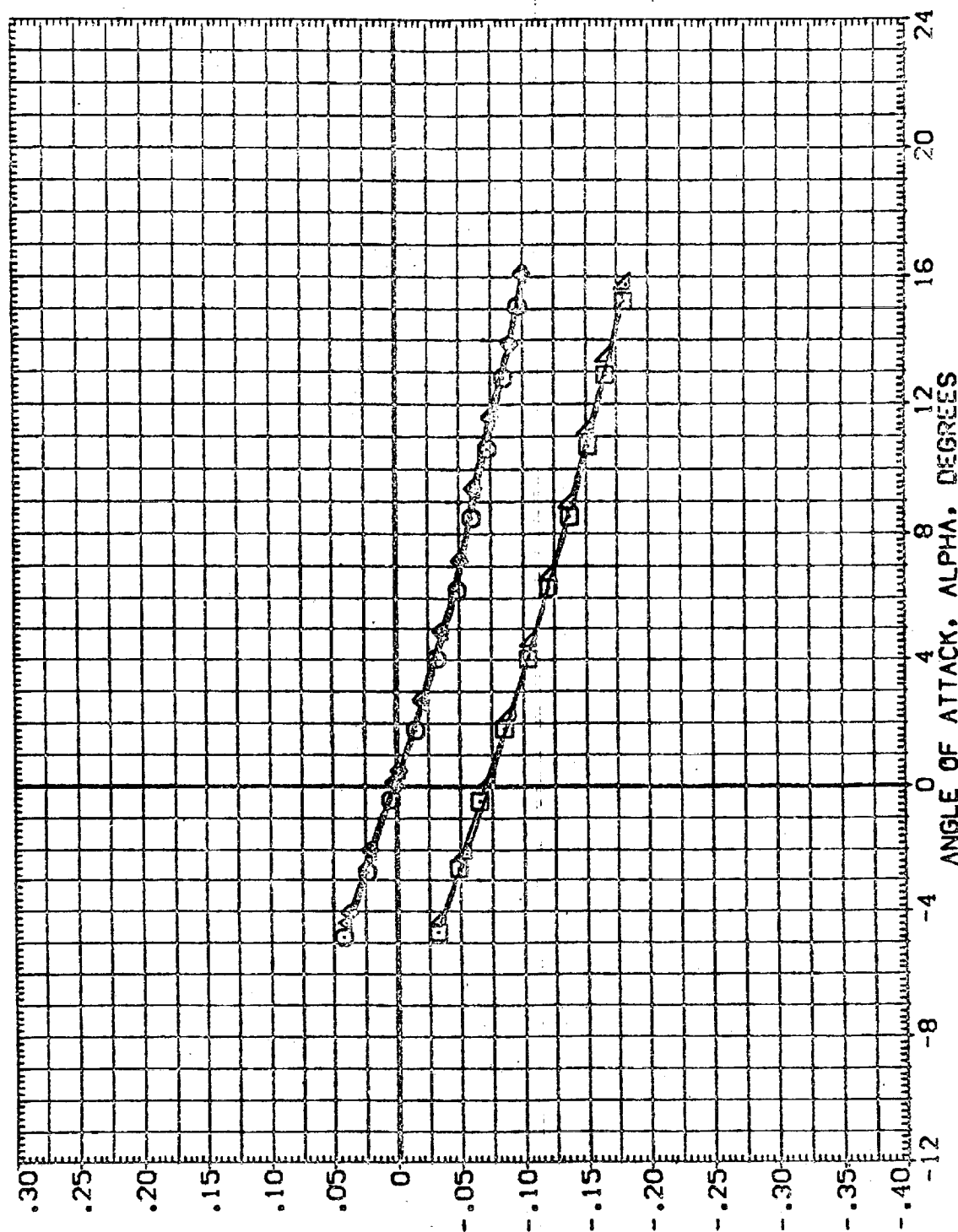


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    SCFLAP    REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50. FT.
(CER003)	ARC 66-709 0A59 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 DA11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP -.3750 IN.
					SCALE .0150

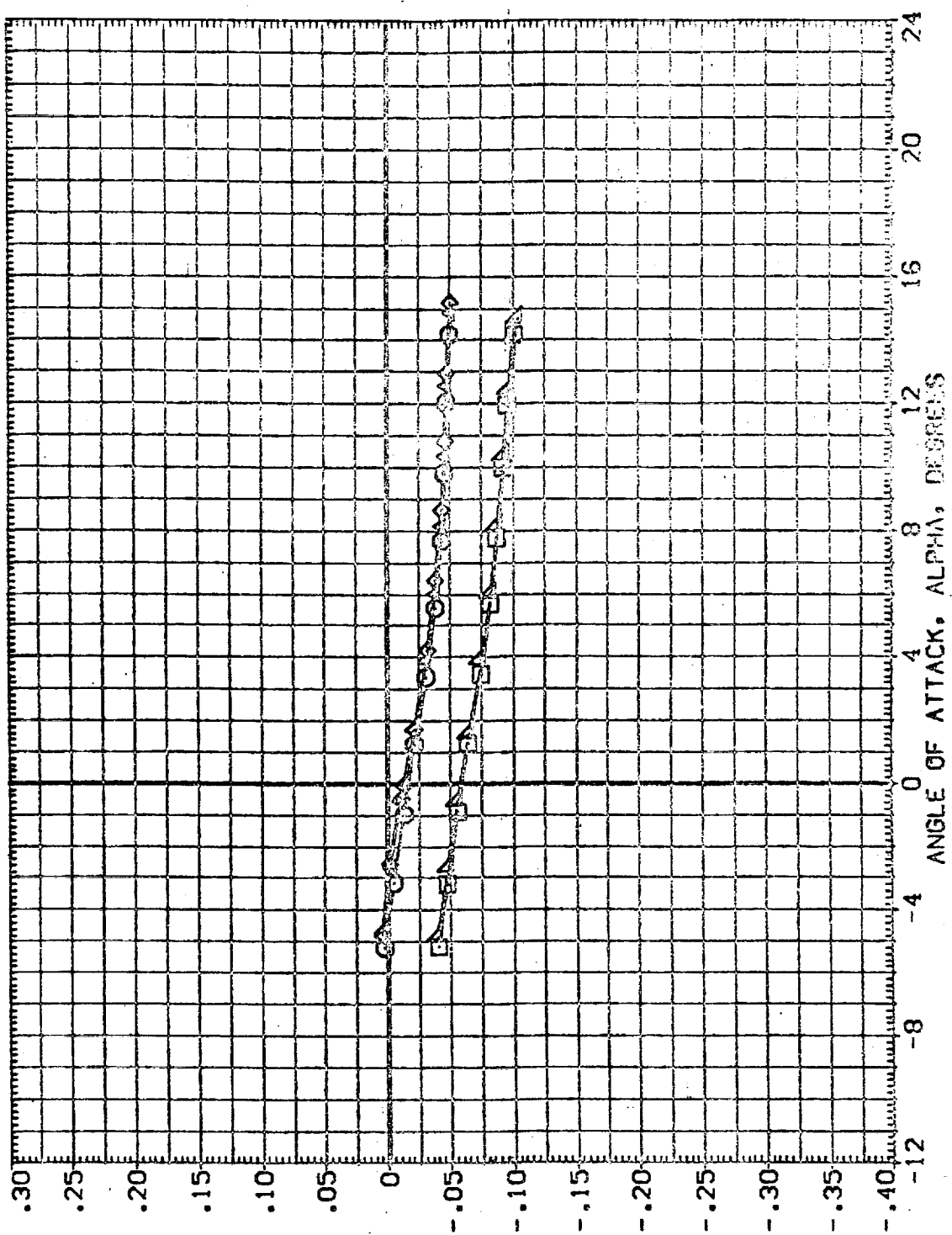


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJMACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50. FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

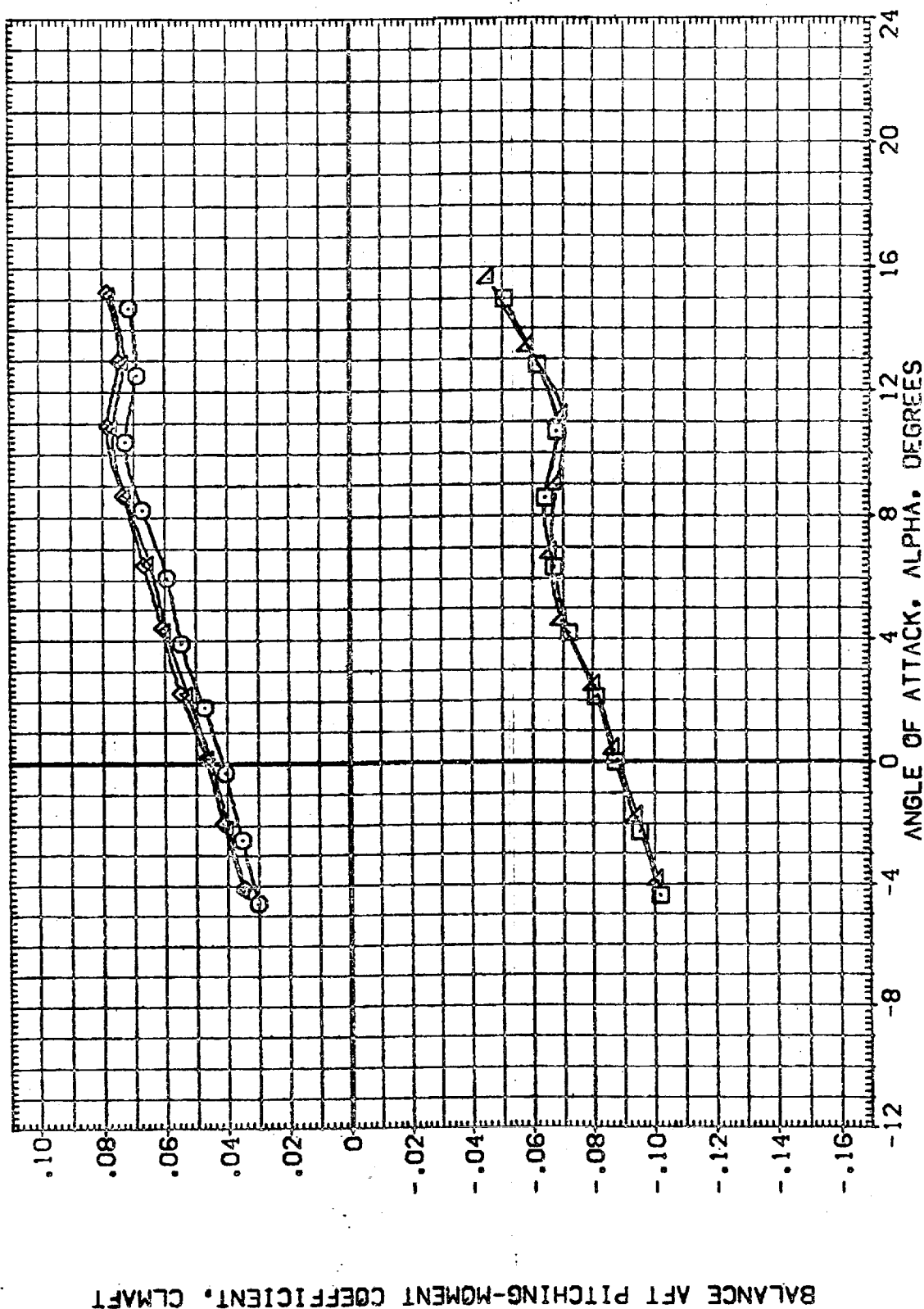


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    ELEVON    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ELEVON	REFERENCE INFORMATION
{CER001}	ARC 66-709 CAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .8053 59. FT.
{CER003}	ARC 66-709 CAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 59. FT.
{CER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 59. FT.
{CER012}	ARC 66-709 CAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 59. IN.
{CER013}	ARC 66-709 CAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 59. IN.
					ZMRP -.3750 59. IN.
					SCALE .0150

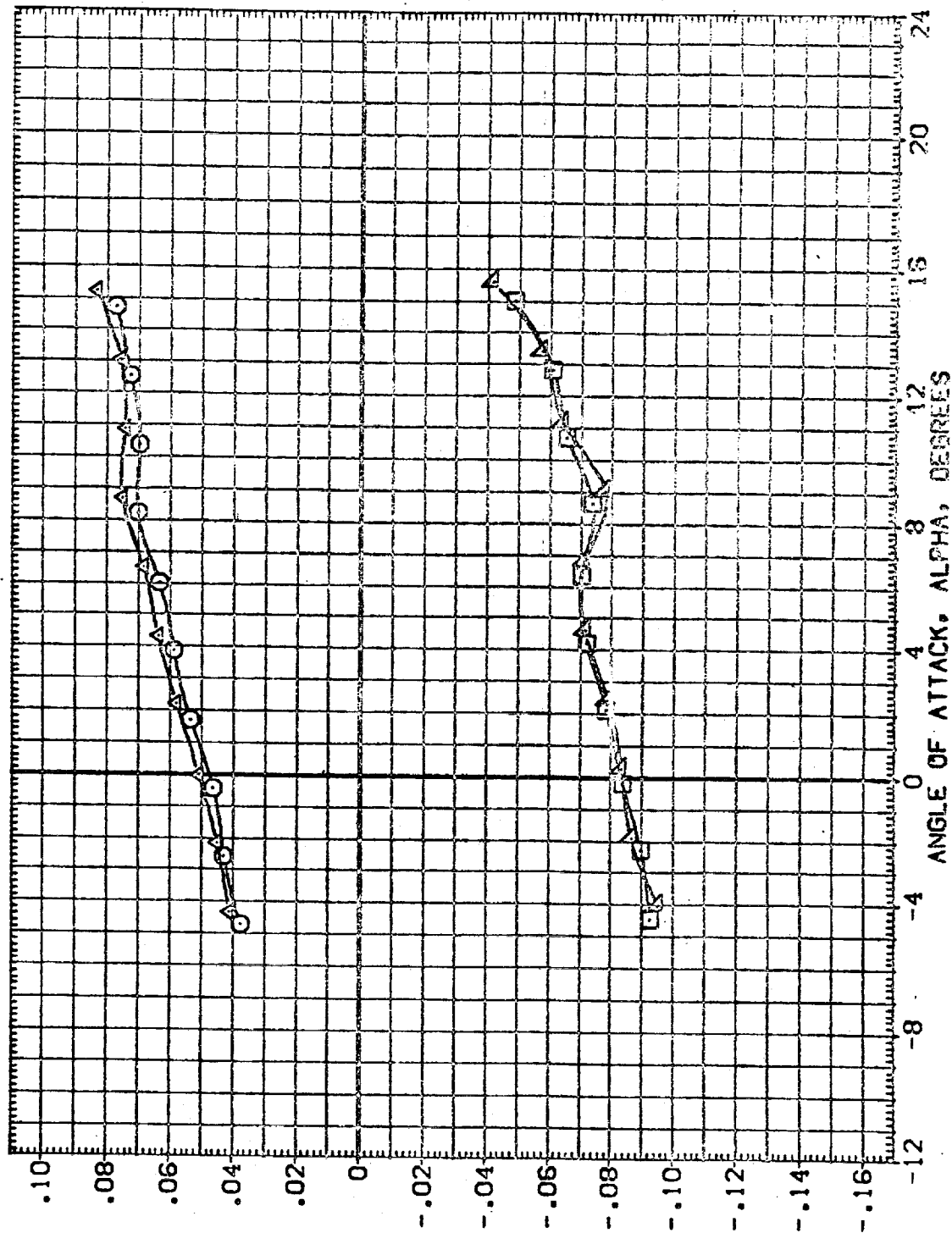


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    EOF LAP    REFERENCE IN ORIENTATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EOF LAP	REFERENCE IN ORIENTATION
(CER001)	ARC 66-709 OAS9 0A11A-(N24 R5 V8)-STRUT+OUM STING	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 OAS9 0A11A-(R5 V8)-STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

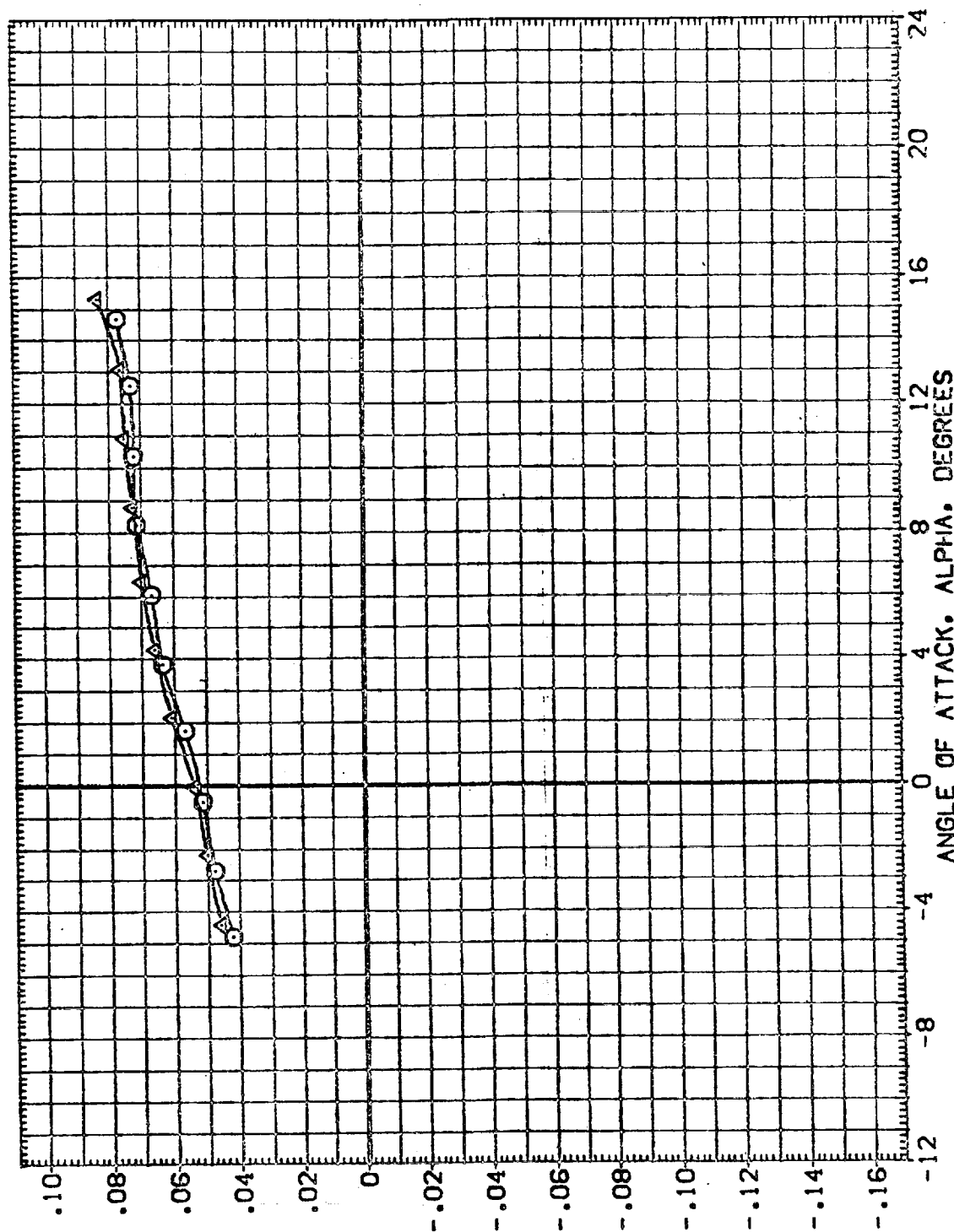


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

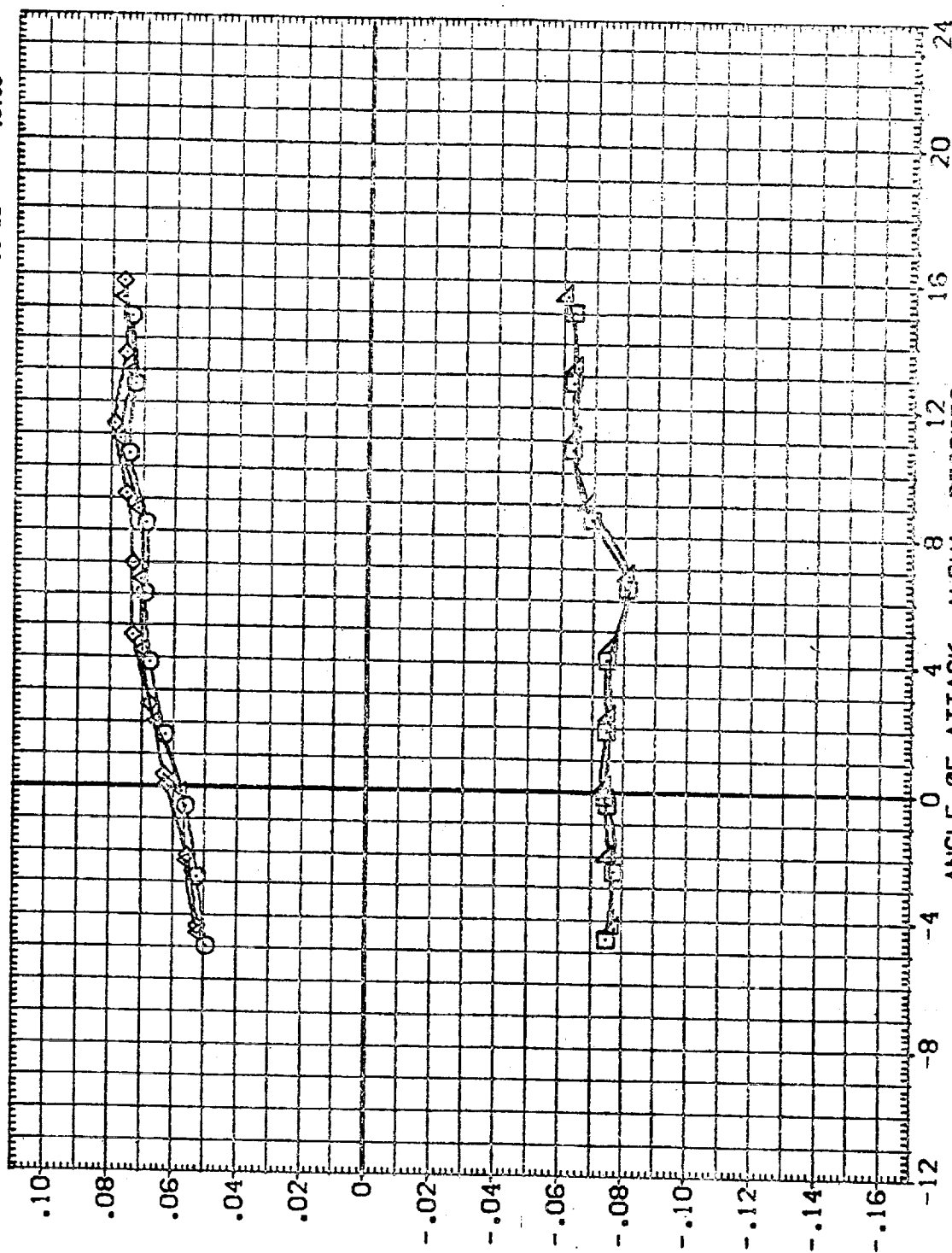
# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) □  
(CER003) □  
(CER009) □  
(CER012) □  
(CER013) □

ARC 66-709 QAS9 C111A-(N24 RS V8)\*STRUT+QUM STNG  
ARC 66-709 QAS9 C111A-(N24 RS V8)\*STRUT+QUM STNG  
ARC 66-709 QAS9 C111A-(N24 RS V8)\*STRUT  
ARC 66-709 QAS9 C111A-(RS V8)\*STRUT  
ARC 66-709 QAS9 C111A-(RS V8)\*STRUT

BETA .000  
ELEVON .000  
FOFLAP -11.700  
-11.700  
-11.700  
-11.700  
-11.700  
-11.700

REFERENCE INFORMATION  
SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150



Balance Aft Pitching-Moment Coefficient, CMAFT

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80



REFERENCE INFORMATION

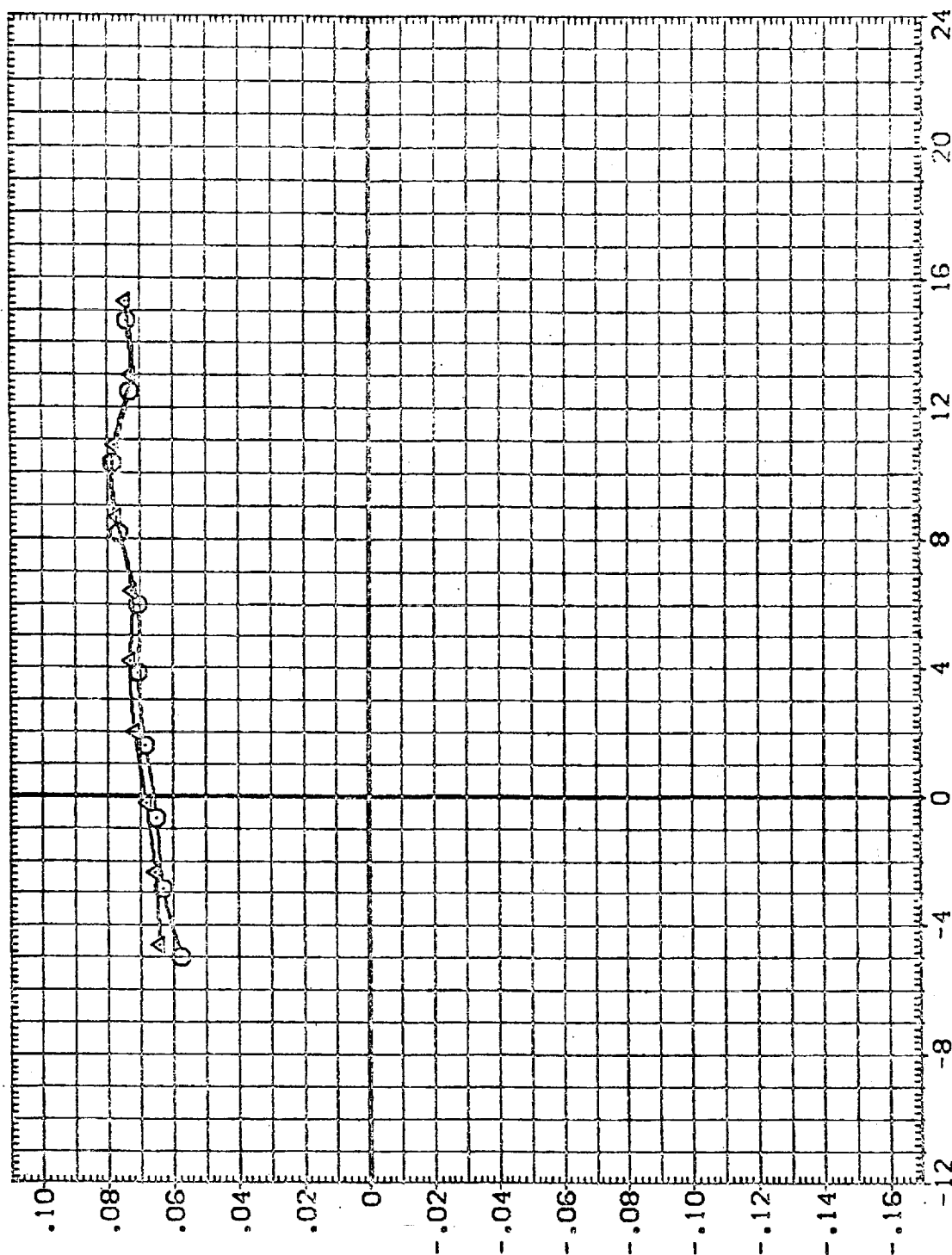
GREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
YMRP	12.6255	IN.
ZMRP	.0000	IN.
SCALE	-.3750	IN.
	.0150	

ELEVON COELAP

BETA	.000	-11.700
ELEVON	.000	-11.700
COELAP	.000	-11.700
	.000	-11.700
	.000	-11.700
	.000	-11.700

DATA SET SYMBOL

(CER001)	ARC 65-709 DASS DALLA-IN24 (RS V81)+STRUT+DLM SING
(CER003)	DATA NOT AVAILABLE
(CER009)	DATA NOT AVAILABLE
(CER012)	ARC 65-709 DASS DALLA-IN24 (RS V81)+STRUT
(CER013)	DATA NOT AVAILABLE



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    EDFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EDFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .0053 50 FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5335 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT	.000	.000	-11.700	SREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	YMRP 12.6735 IN.
(CER013)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

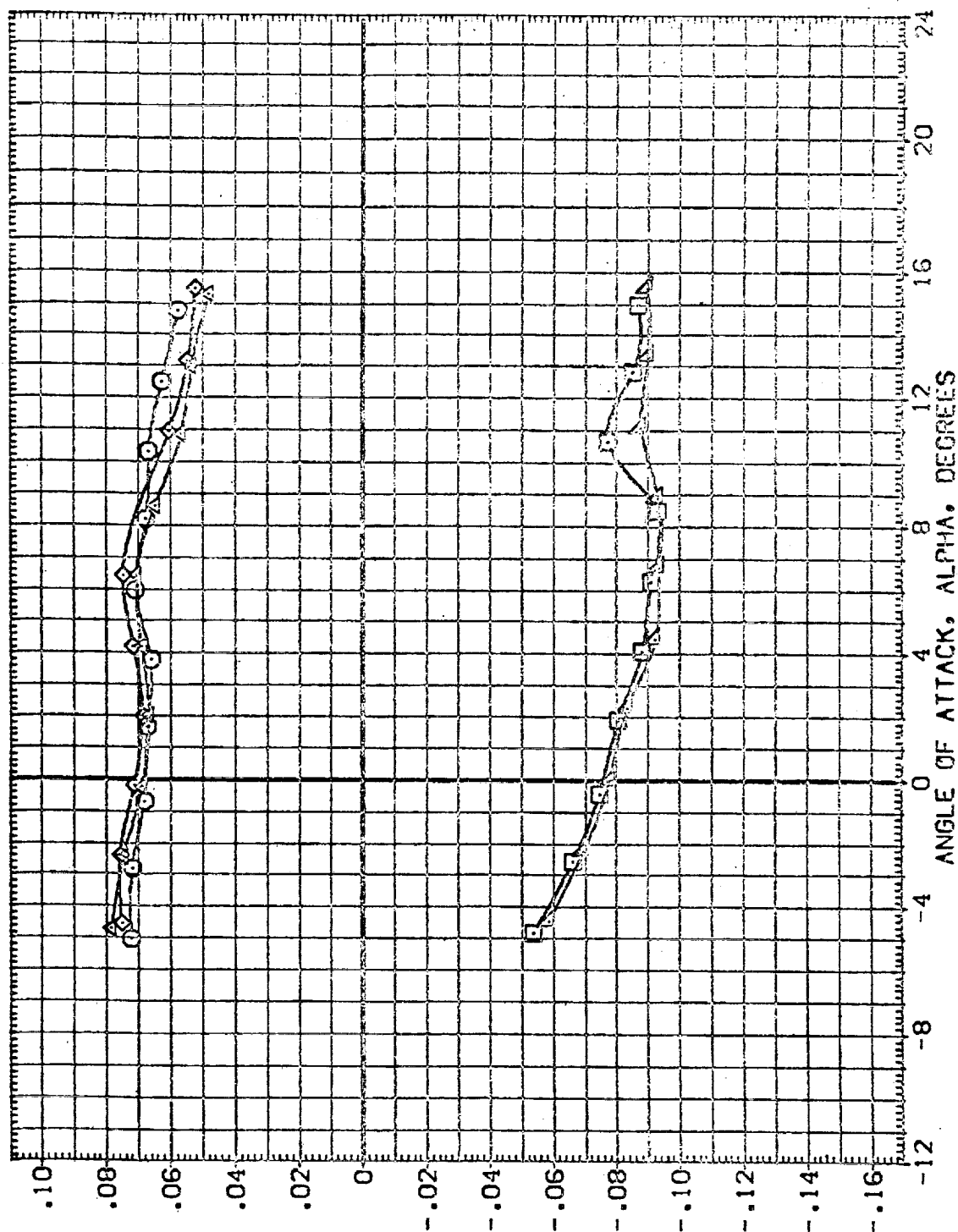


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION

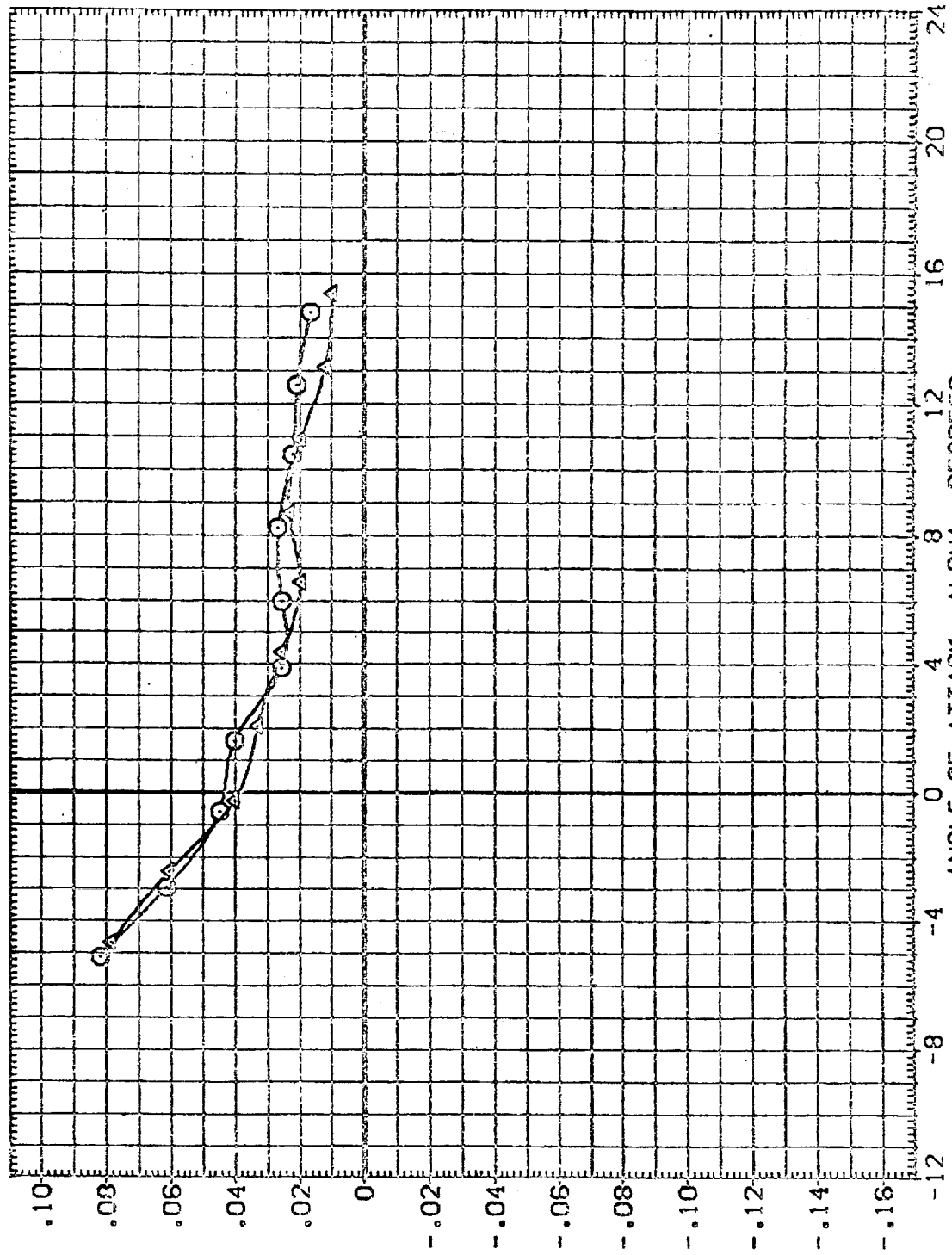
SREF	.8053	50 FT.
LRFP	.9335	FT.
BRFP	1.1710	IN.
YMRP	12.6255	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON 80FLAP

BETA	.000	-11.700
ELEVON	.000	-11.700
80FLAP	.000	-11.700
15.000	.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	.000	-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)	ARC 55-709 0A50 0A11A-(N24 R5 V8)+STRUT+DUM STING
(CER003)	DATA NOT AVAILABLE
(CER009)	DATA NOT AVAILABLE
(CER012)	ARC 55-709 0A59 0A11A-(R5 V8)+STRUT
(CER013)	DATA NOT AVAILABLE



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EDFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	15.000	-11.700	XMRP .0000 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

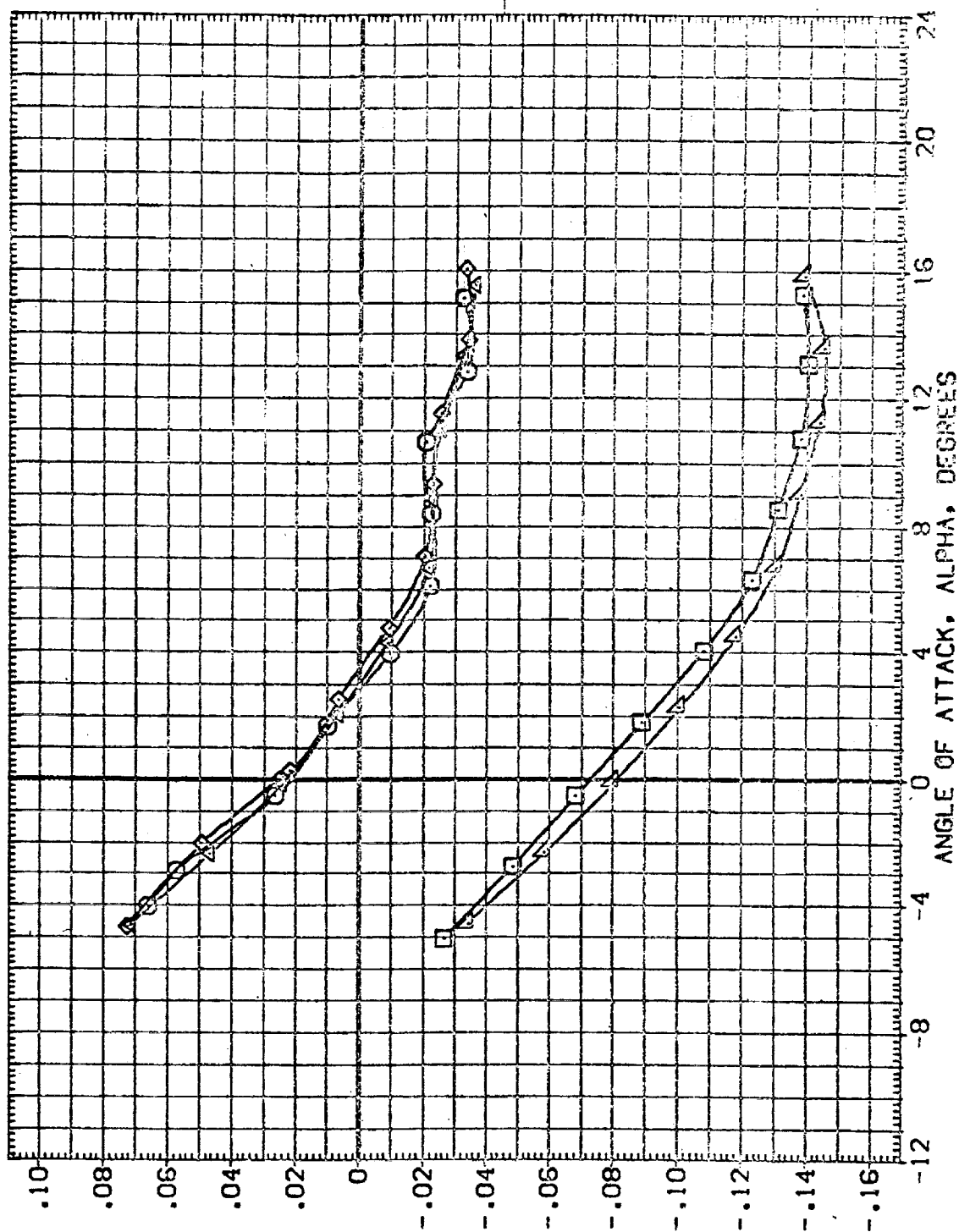


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

(CER001)    ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM SING    .000    .000    -11.700

(CER003)    ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM SING    .000    15.000    -11.700

(CER009)    ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT    .000    .000    -11.700

(CER012)    ARC 66-709 DASS 0A11A-(RS V81)+STRUT    .000    .000    -11.700

(CER013)    ARC 66-709 DASS 0A11A-(RS V81)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

YMRP    12.6255    IN.

ZMRP    .0000    IN.

SCALE    -.3750    IN.

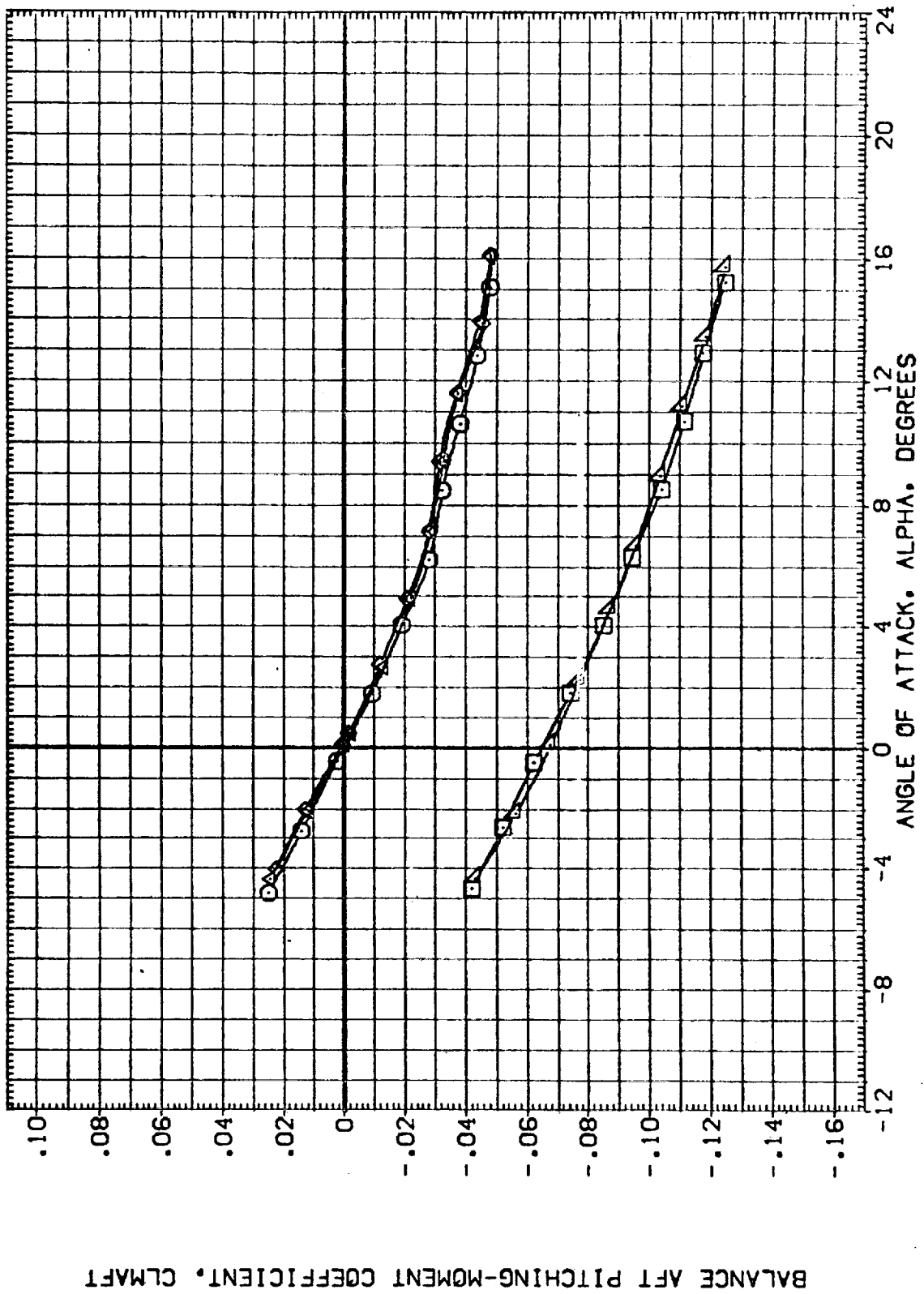
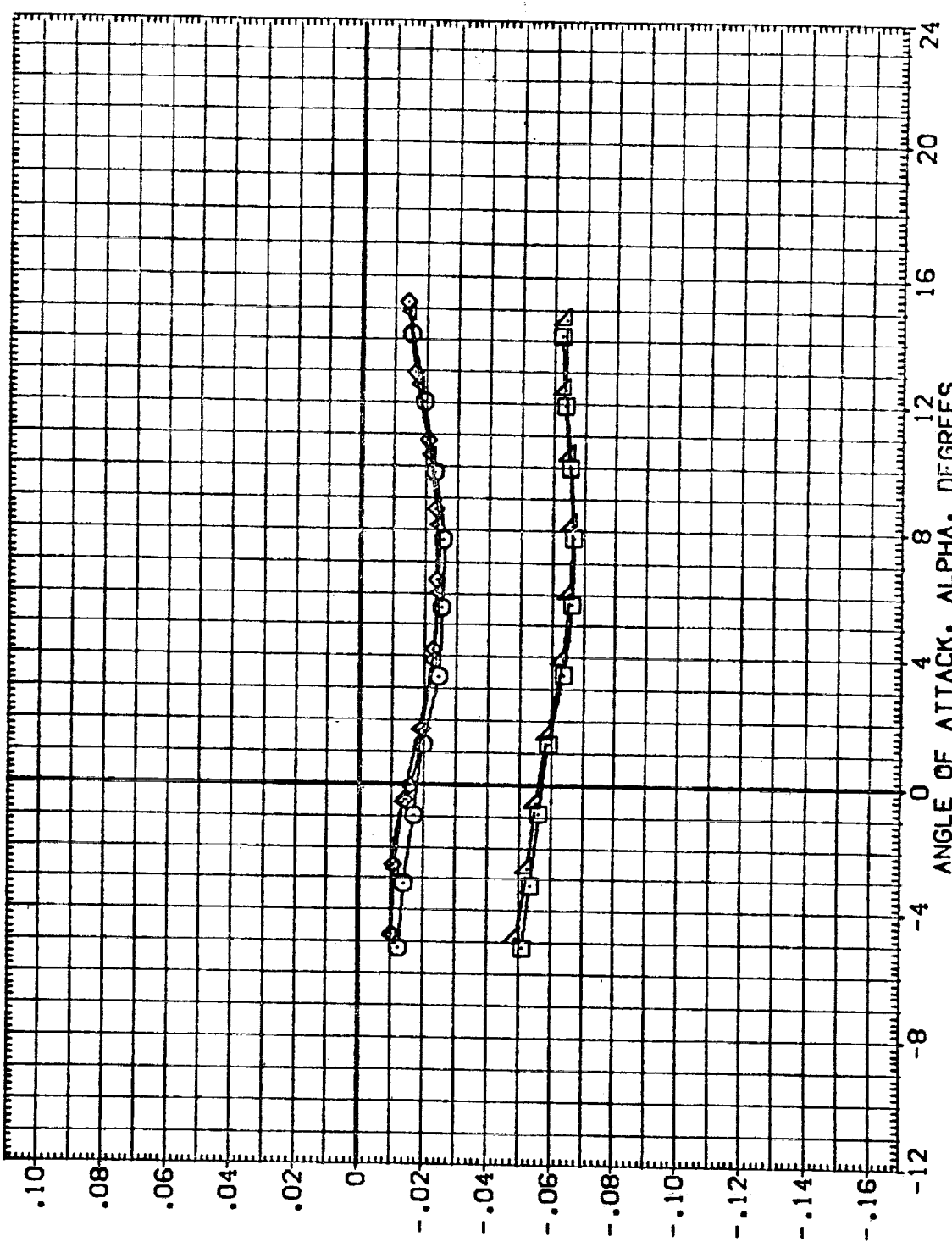


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
{CER003}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
{CER009}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



Balance Aft Pitching-Moment Coefficient, CLMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(JJMACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-703 0A53 0A11A-(N24 R5 V3)+STRUT+CLM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER003)	ARC 66-703 0A53 0A11A-(N24 R5 V3)+STRUT+CLM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-703 0A53 0A11A-(N24 R5 V3)+STRUT	.000	.000	-11.700	GREF 1.1710 IN.
(CER012)	ARC 66-703 0A53 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-703 0A53 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

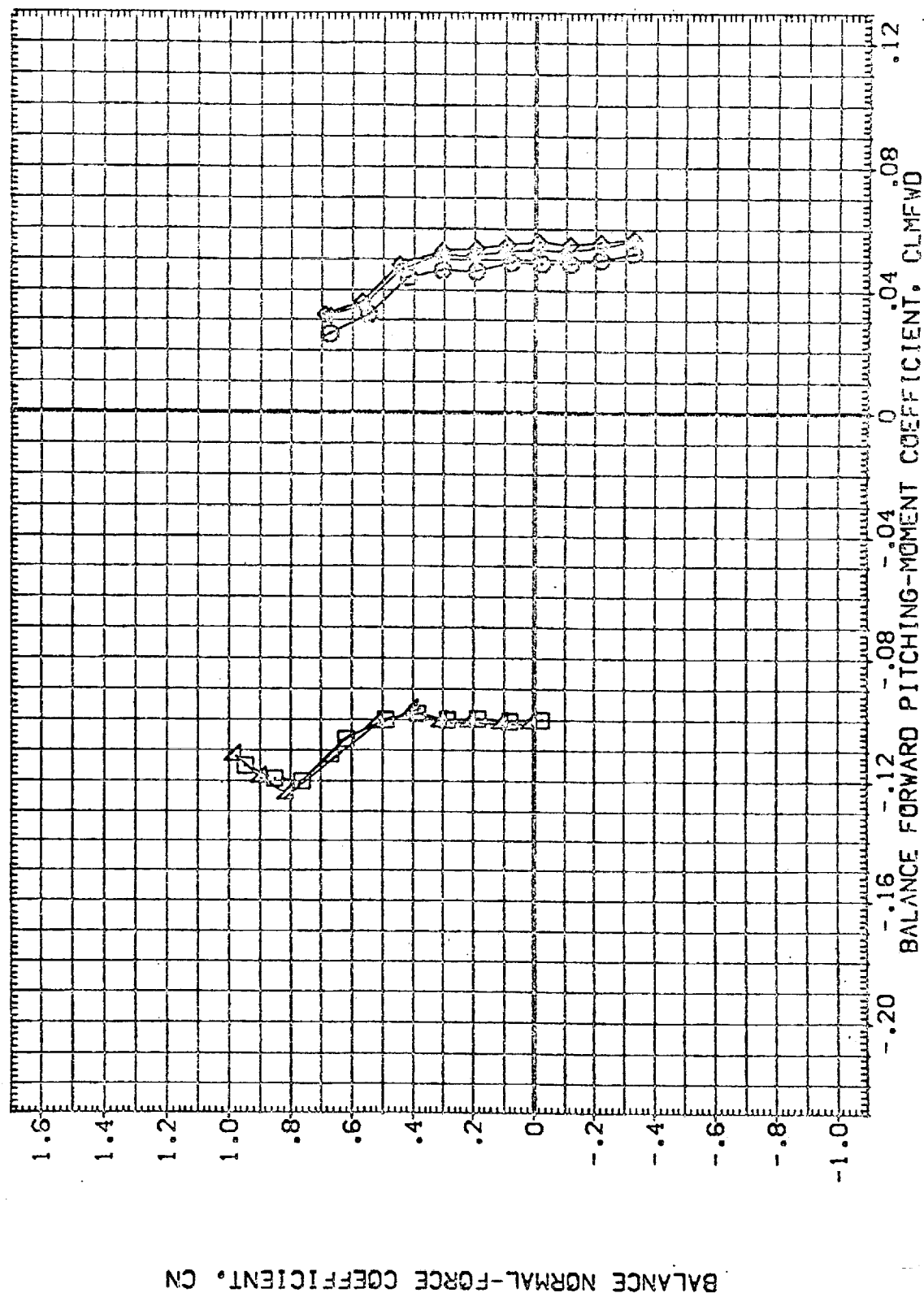


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    50% LAP

(CER001)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    .000    -11.700  
 (CER003)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    15.000    -11.700  
 (CER009)    DATA NOT AVAILABLE    .000    .000    -11.700  
 (CER012)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT    .000    .000    -11.700  
 (CER013)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    50.FT.  
 LREF    .5935    FT.  
 BREF    1.1710    FT.  
 YMRP    12.6255    IN.  
 YMRP    .0000    IN.  
 ZMRP    -.3750    IN.  
 SCALE    .0150

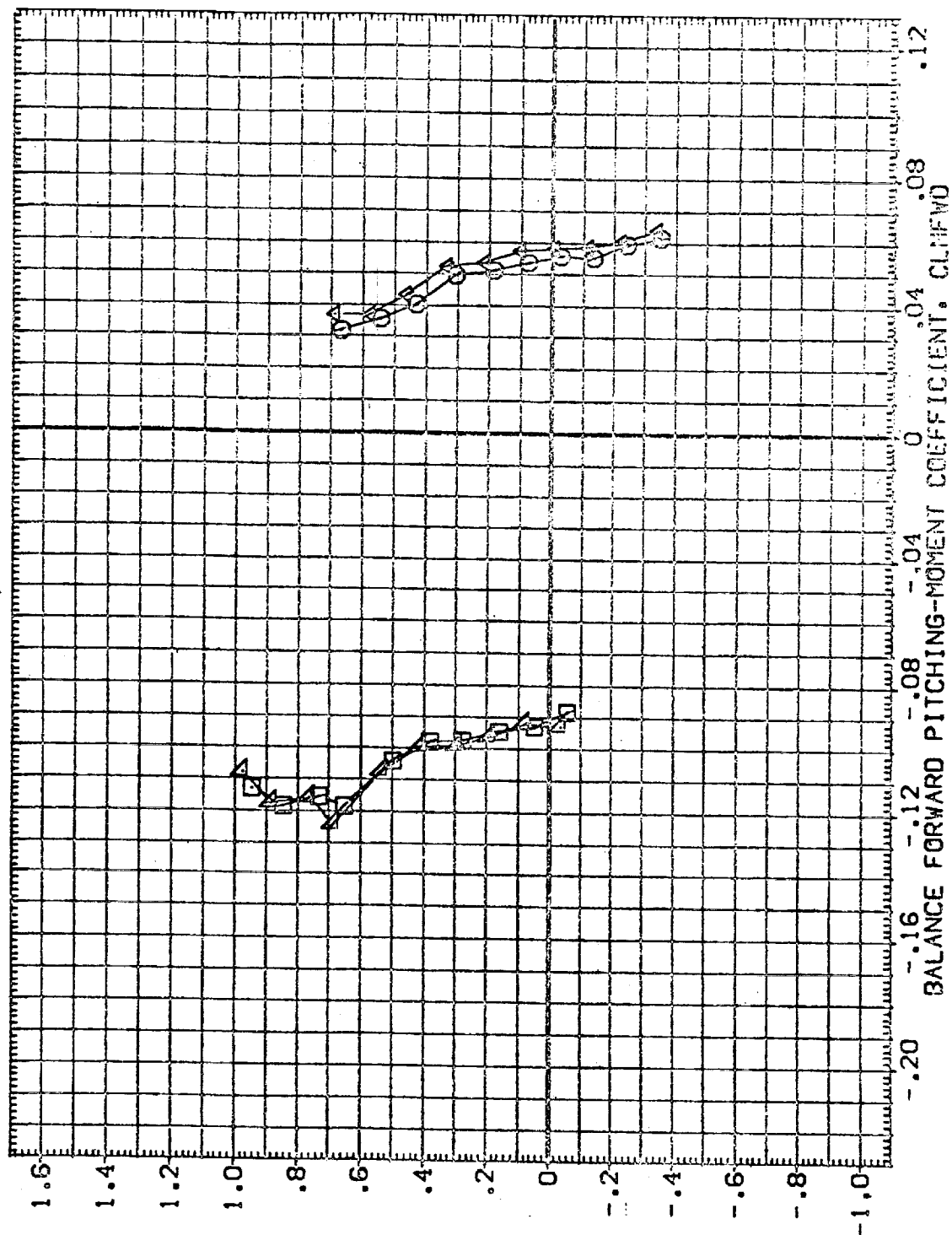


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-703 OAS9 OAL11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 30.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER003)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-703 OAS9 OAL11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

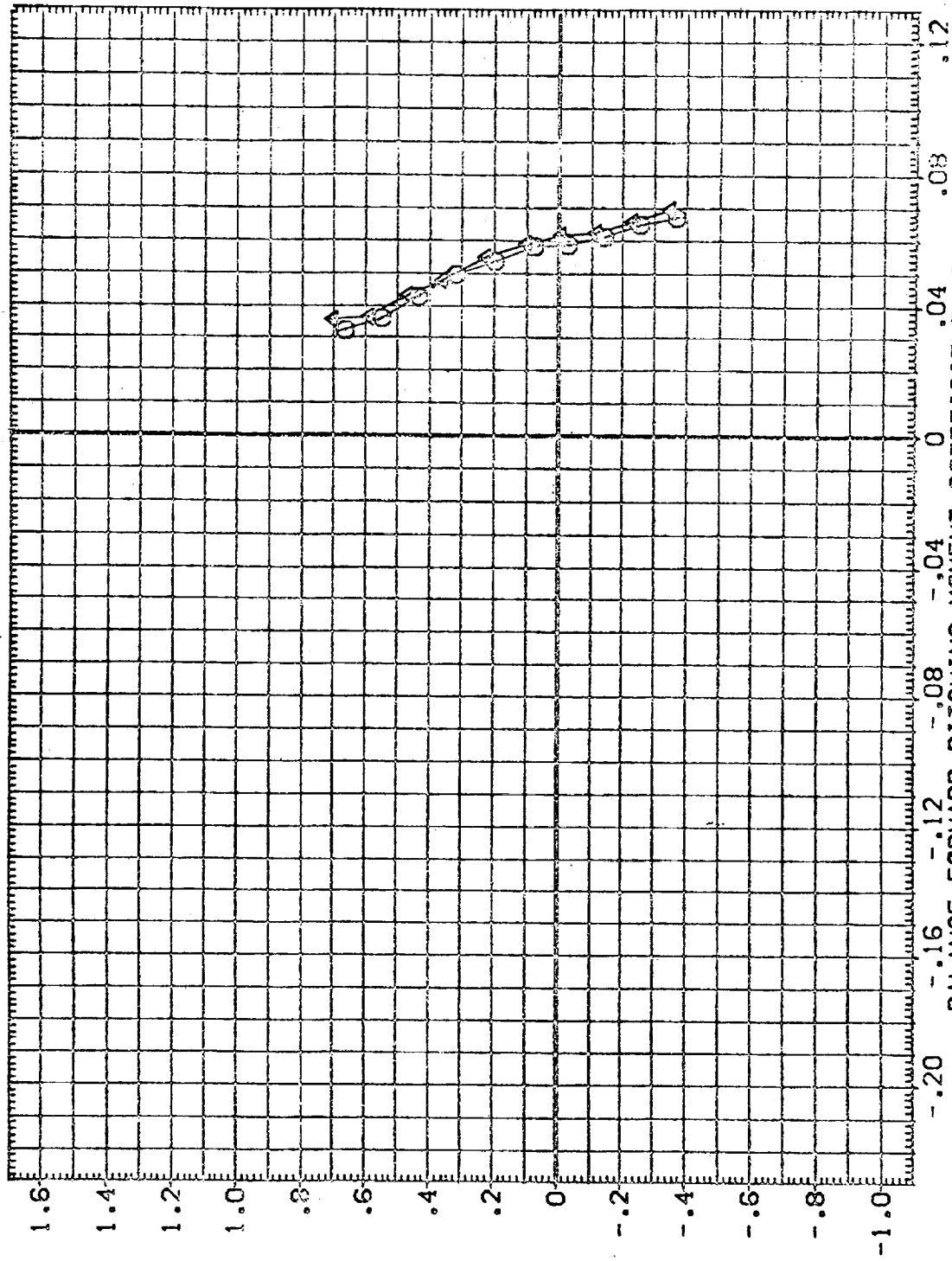


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

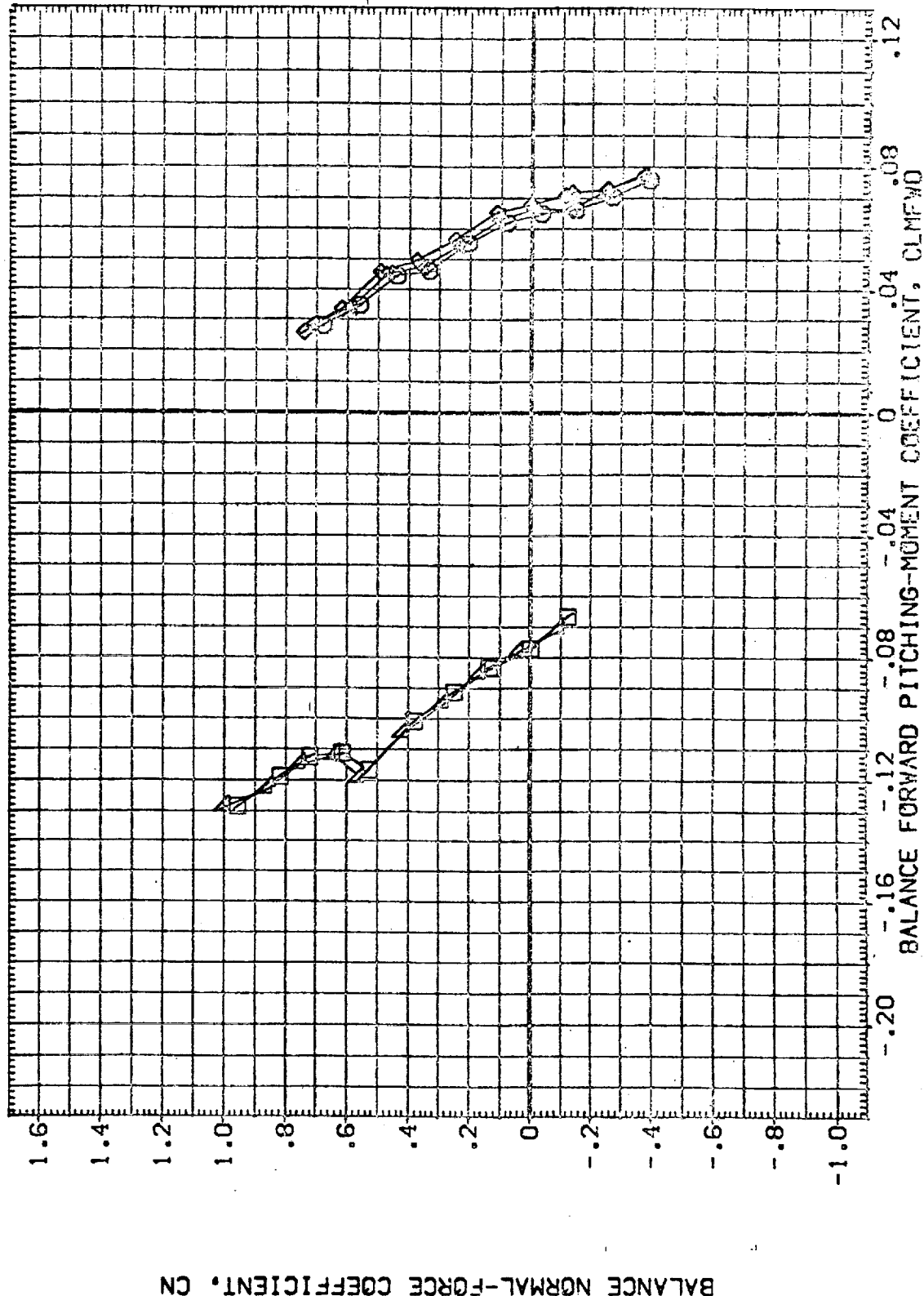


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

COMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 OALIA-(N24 R5 V81)+STRUT+OUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 OAS9 OALIA-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

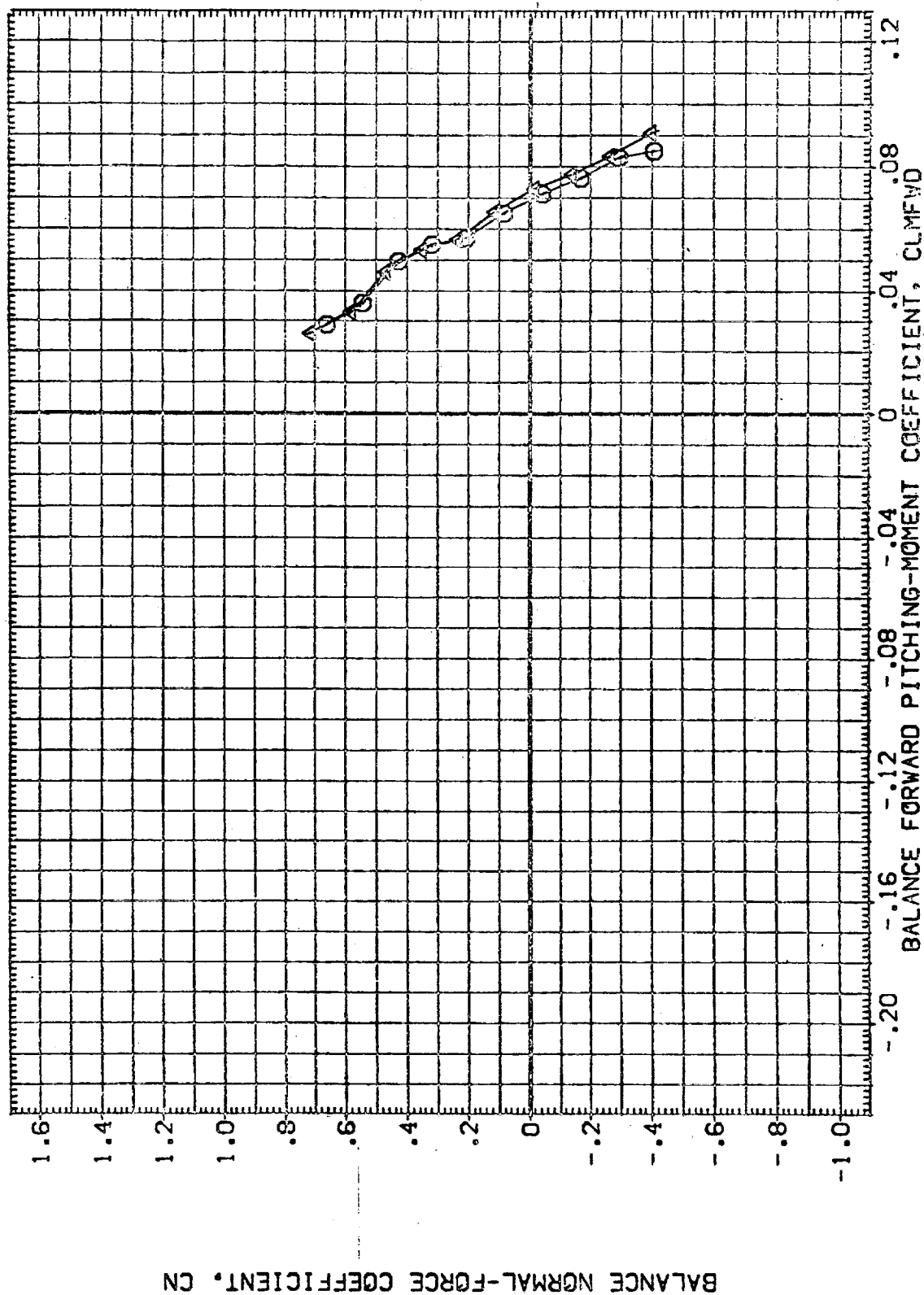


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOCLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
{CER003}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
{CER009}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

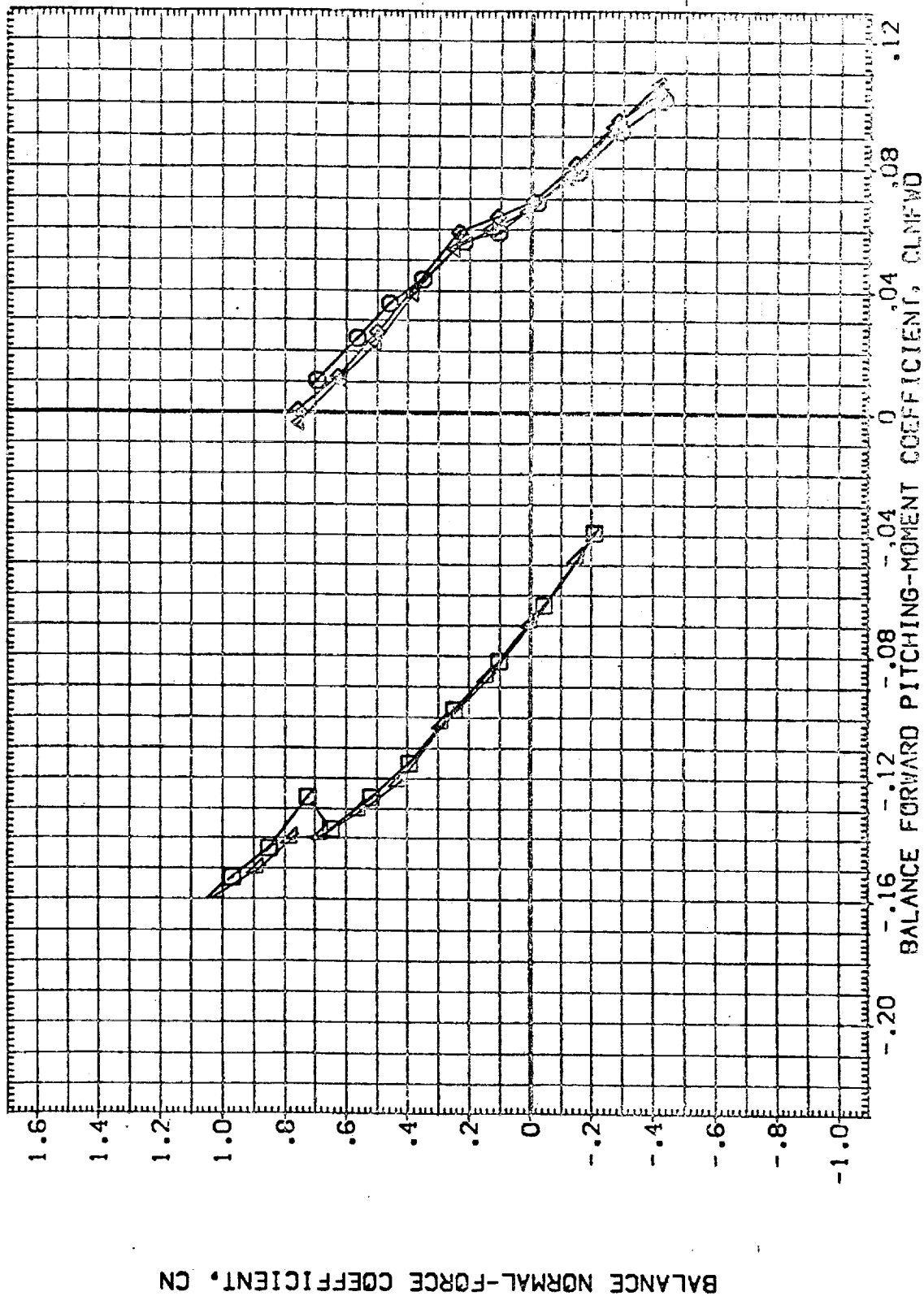


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{CER001} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

{CER003} DATA NOT AVAILABLE

{CER009} DATA NOT AVAILABLE

{CER012} ARC 66-709 0A59 0A11A-(RS V8)+STRUT

{CER013} DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{CER001} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

{CER003} DATA NOT AVAILABLE

{CER009} DATA NOT AVAILABLE

{CER012} ARC 66-709 0A59 0A11A-(RS V8)+STRUT

{CER013} DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

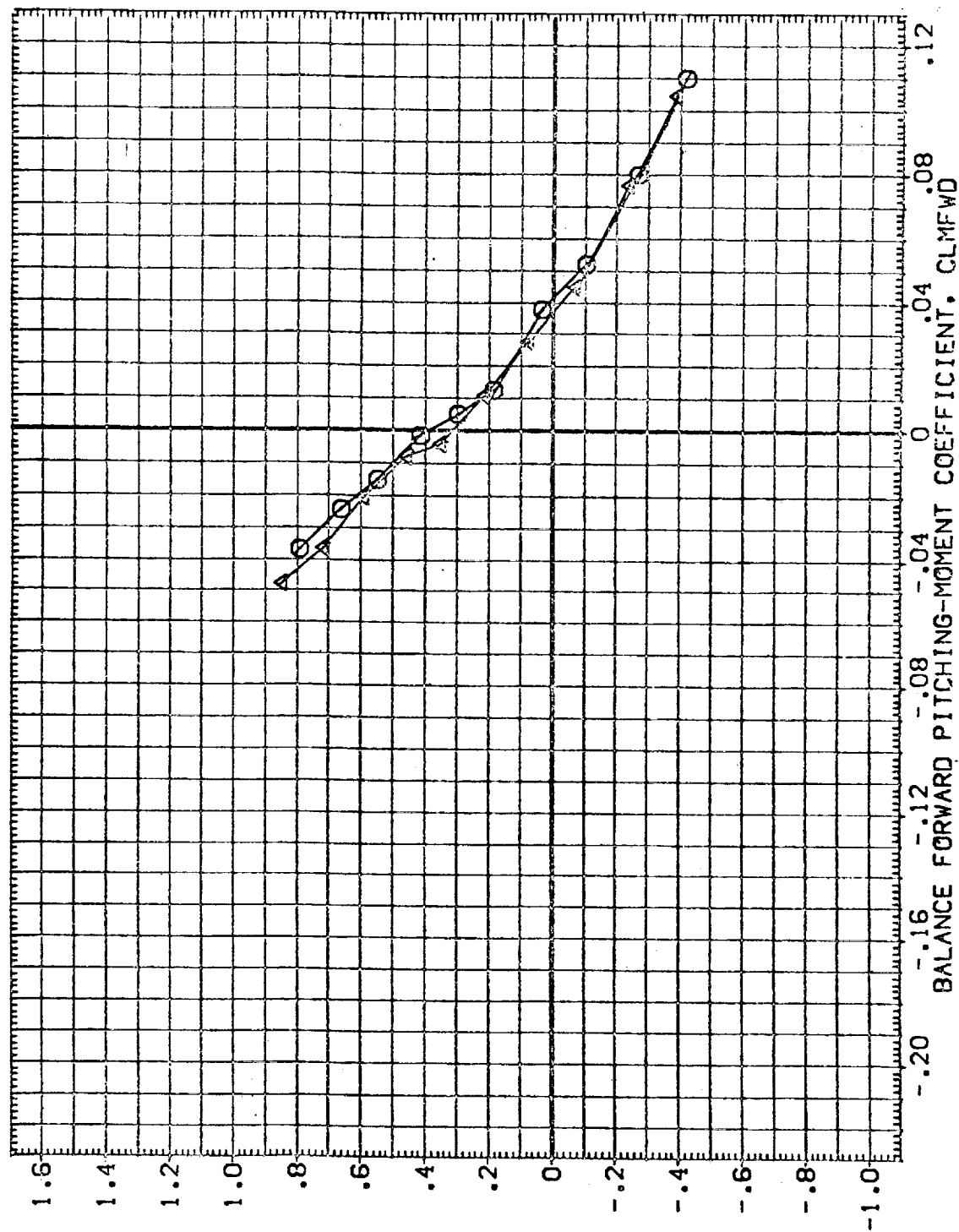


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    EDFLAP

{CER001}    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+QJM STNG    .000    .000    -11.700

{CER003}    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+QJM STNG    .000    15.000    -11.700

{CER009}    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT    .000    .000    -11.700

{CER012}    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    .000    -11.700

{CER013}    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .5053    SQ.FT.

LREF    .5335    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

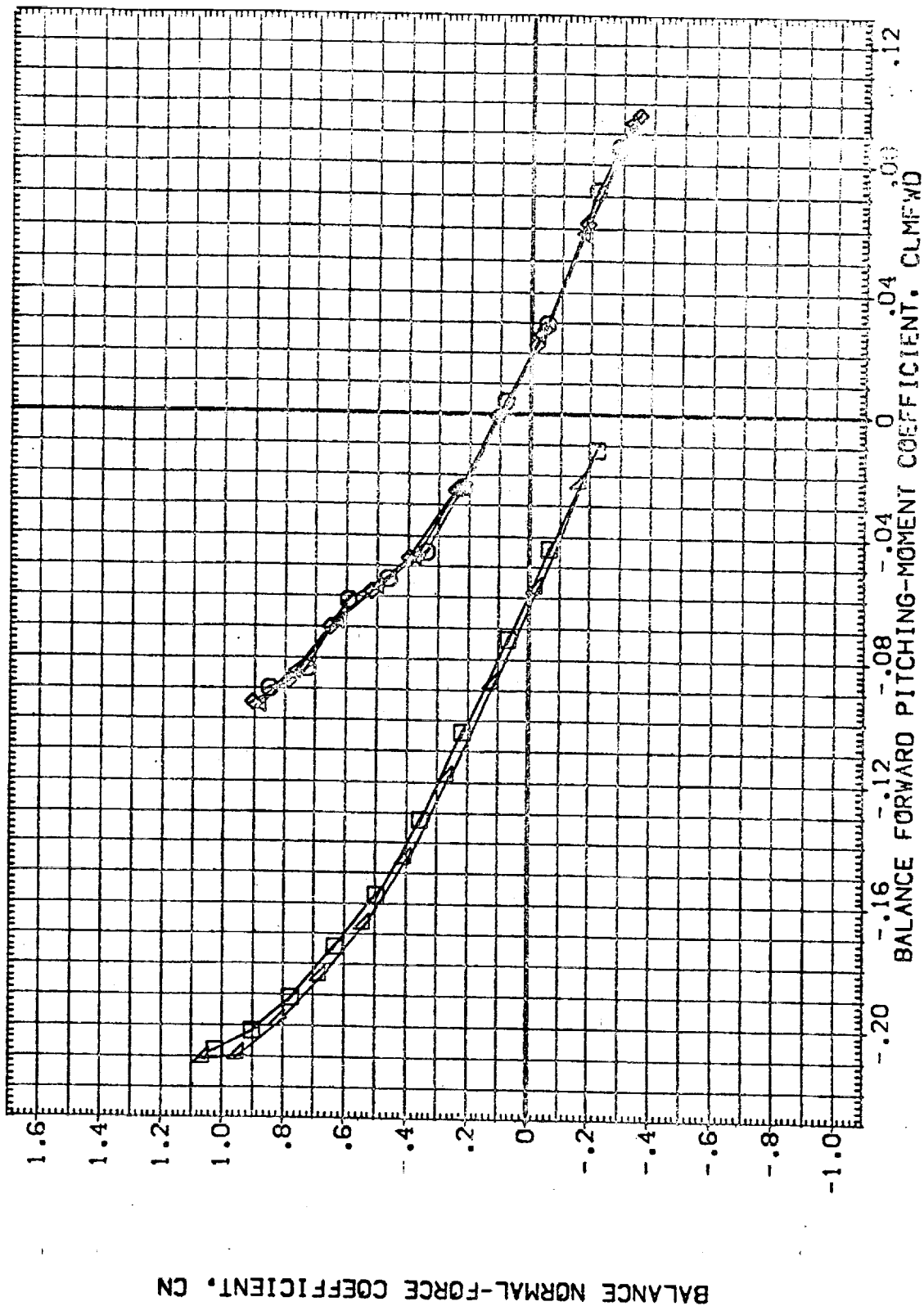


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CH)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

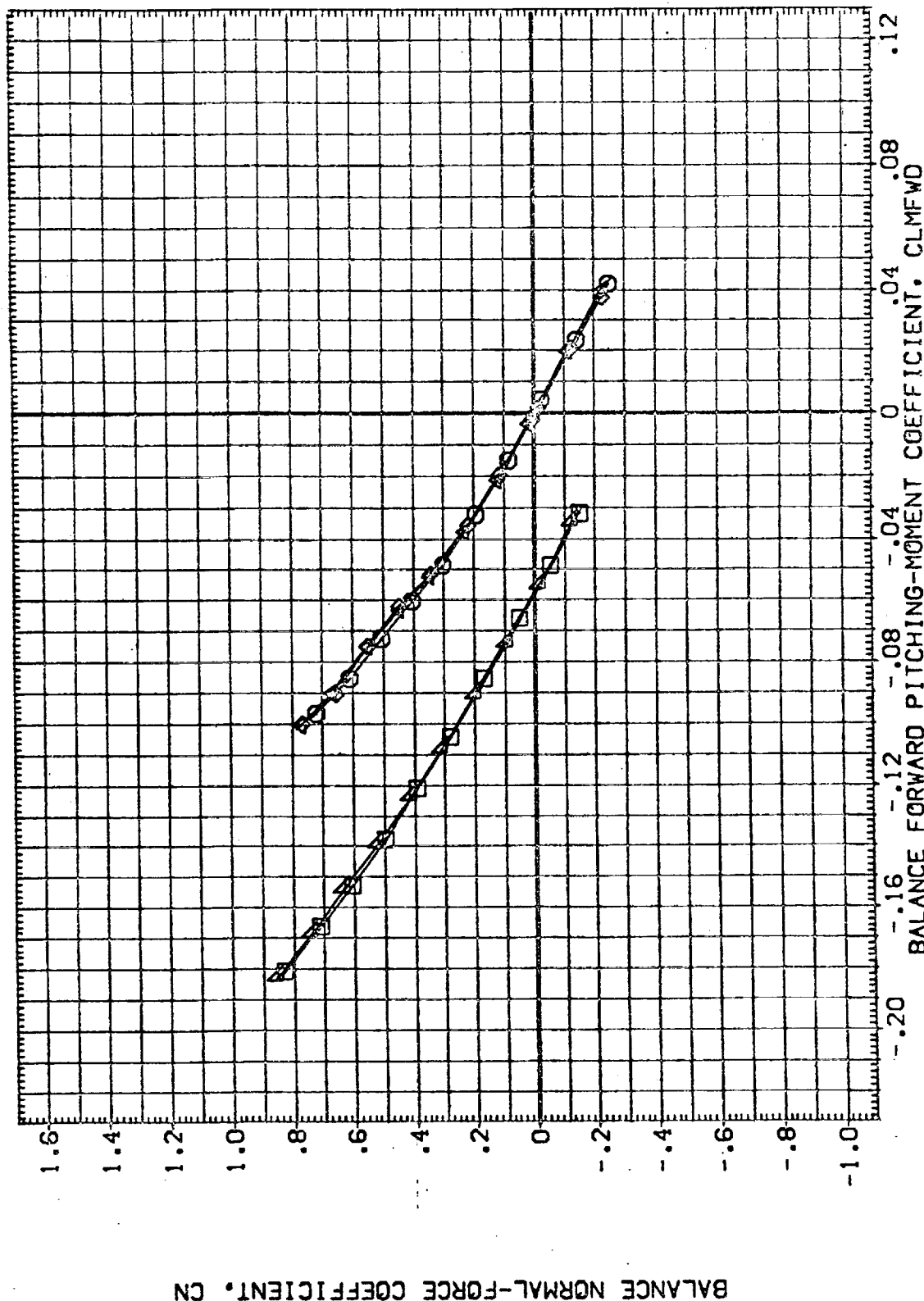


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    30° LAP

(CER001)    ARC 66-709    0A59    0A11A-(N24 R5 V8)+STRUT+DUM STNG    .000    .000    -11.700

(CER003)    ARC 66-709    0A59    0A11A-(N24 R5 V8)+STRUT+DUM STNG    .000    15.000    -11.700

(CER009)    ARC 66-709    0A59    0A11A-(N24 R5 V8)+STRUT    .000    .000    -11.700

(CER012)    ARC 66-709    0A59    0A11A-(R5 V8)+STRUT    .000    .000    -11.700

(CER013)    ARC 66-709    0A59    0A11A-(R5 V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

YMRP    12.6255    IN.

ZMRP    .0000    IN.

SCALE    -.3750    IN.

          .0150

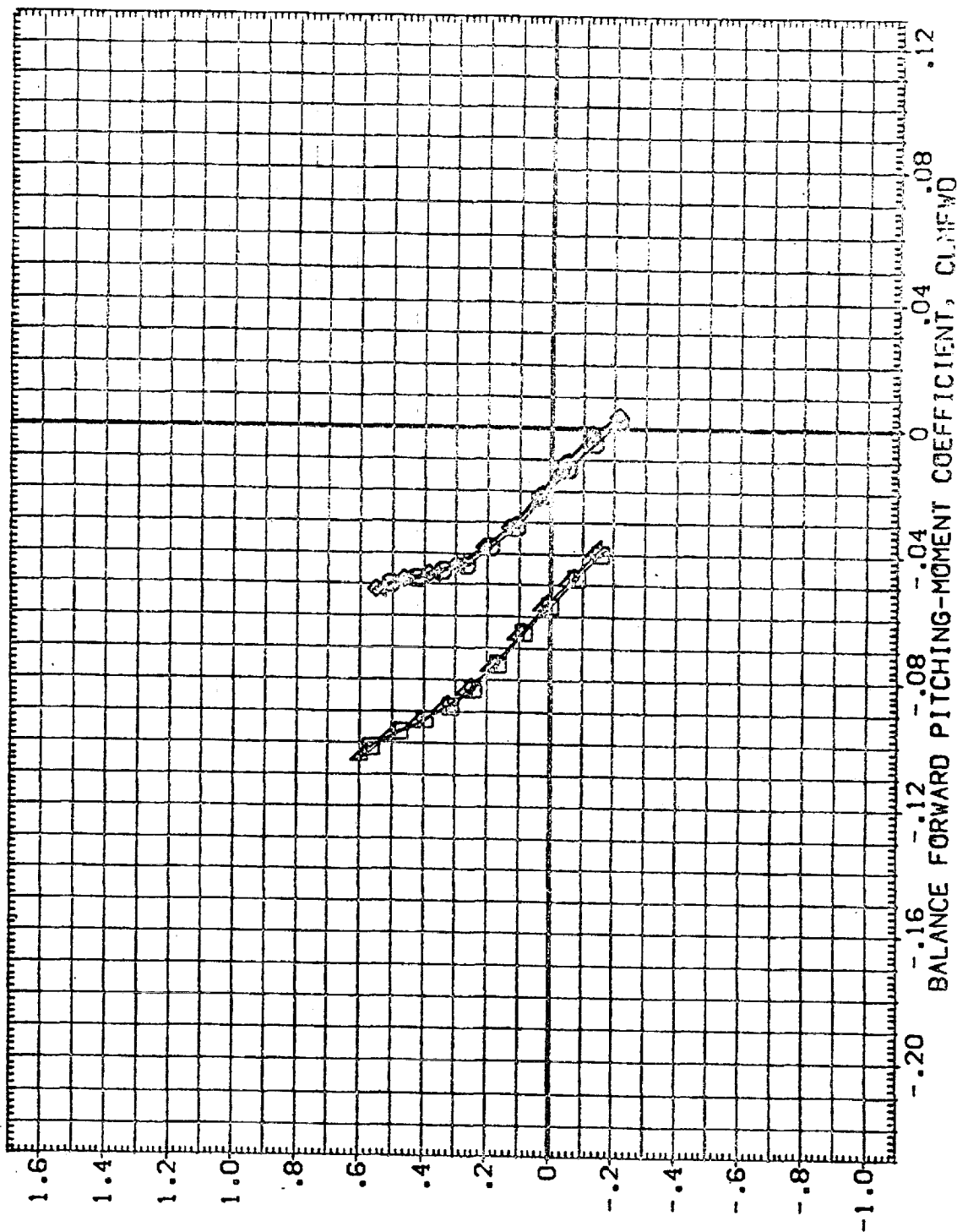


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



REFERENCE INFORMATION	
SREF	.6063 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 IN.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

BETA	ELEVEN	SOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

ARC	CONF	CONFIGURATION	DESCRIPTION
ARC 65-709	QAS9	CA11A-(N24	R5 V01+STRUT+QJM STNG
ARC 66-709	QAS3	CA11A-(N24	R5 V01+STRUT+QJM STNG
ARC 66-709	QAS9	CA11A-(N24	R5 V01+STRUT
ARC 66-709	QAS9	CA11A-(R5	V01+STRUT
ARC 66-709	QAS9	CA11A-(R5	V01+STRUT

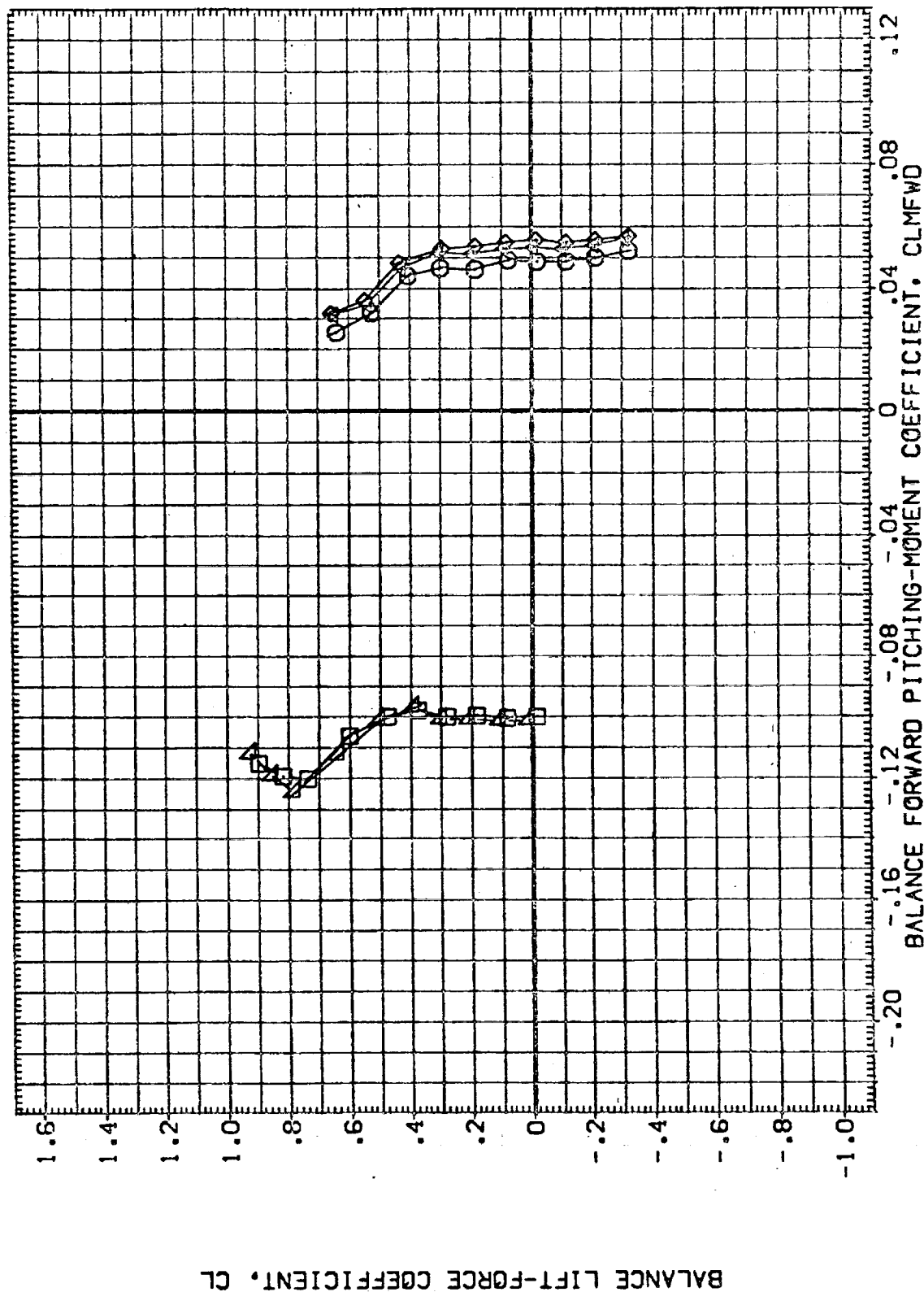


FIG. 4. ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDFLAP    REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

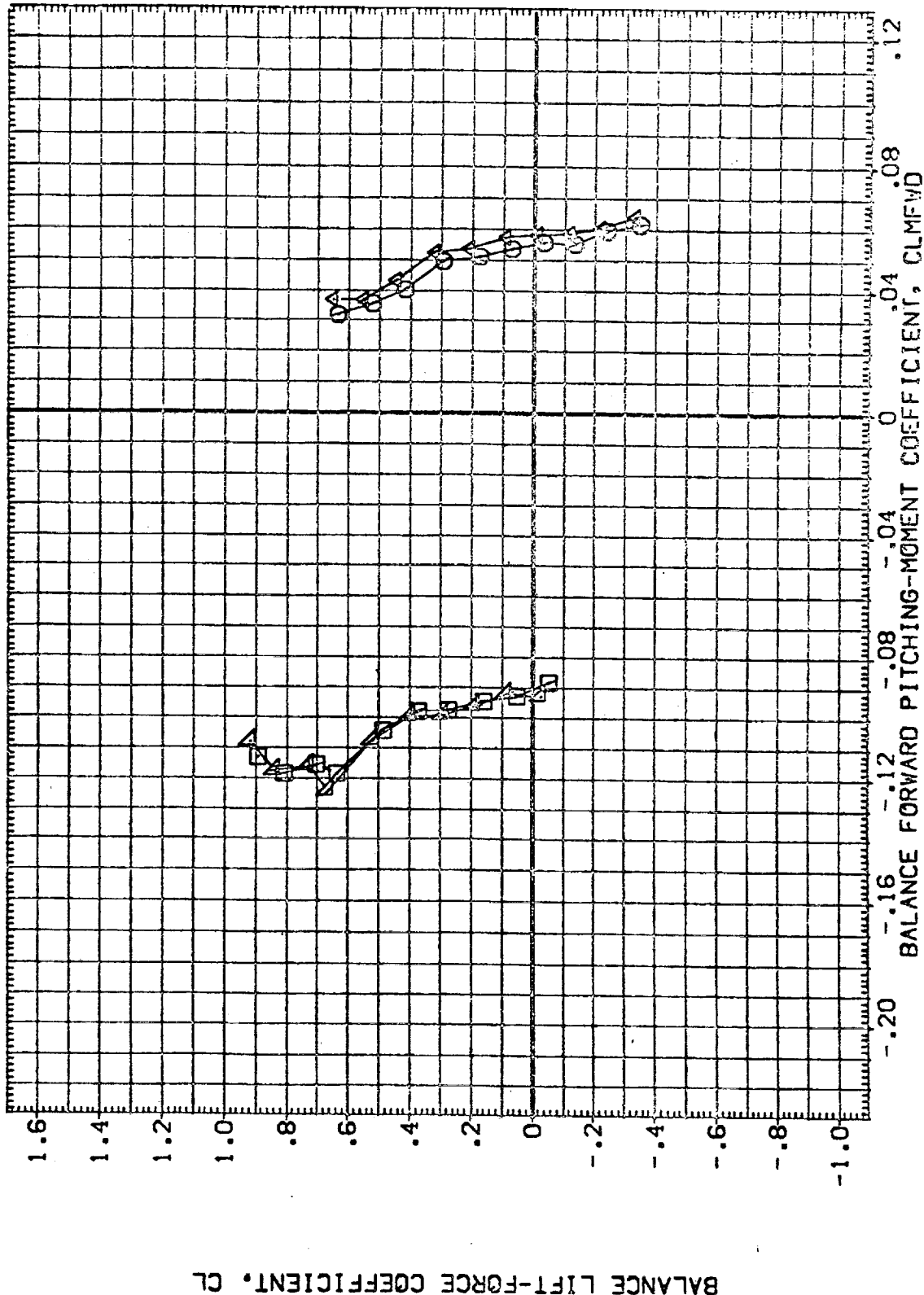


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 Q111A-(N24 RS V81)+STRUT+QUM STING	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 Q111A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

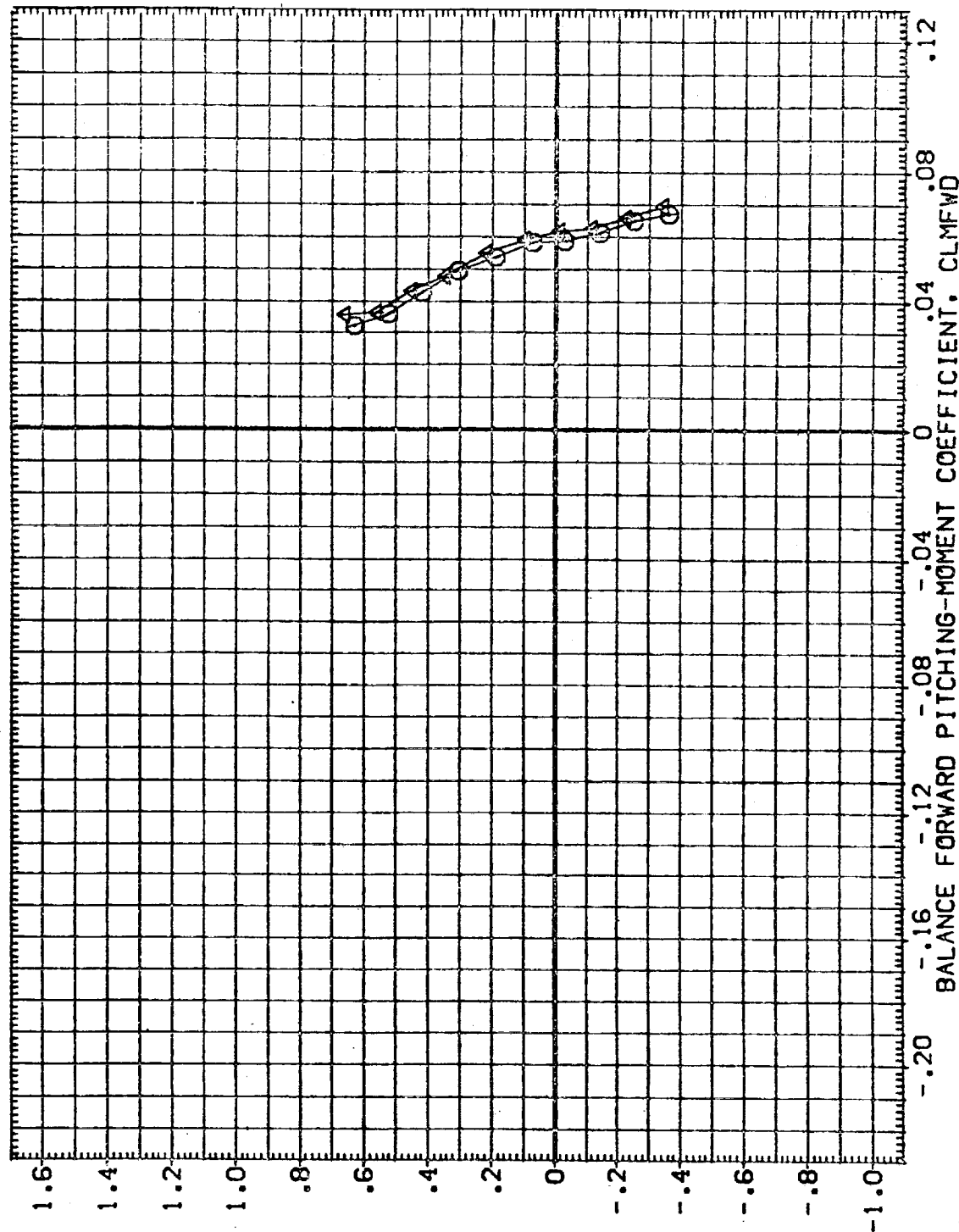


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDFLAP    REFERENCE INFORMATION

[CER001]    ARC 66-709 D459 D411A-(N24 RS V81)+STRUT+DUM STNG    .000    .000    -11.700    SREF    .8053    50. FT.

[CER003]    ARC 66-709 D459 D411A-(N24 RS V81)+STRUT+DUM STNG    .000    .000    -11.700    LREF    .5935    FT.

[CER009]    ARC 66-709 D459 D411A-(N24 RS V81)+STRUT    .000    .000    -11.700    BREF    1.1710    FT.

[CER012]    ARC 66-709 D459 D411A-(RS V81)+STRUT    .000    .000    -11.700    XMRP    12.6755    IN.

[CER013]    ARC 66-709 D459 D411A-(RS V81)+STRUT    .000    .000    -11.700    YMRP    .0000    IN.

[CER013]    ARC 66-709 D459 D411A-(RS V81)+STRUT    .000    .000    -11.700    ZMRP    -.3750    IN.

[CER013]    ARC 66-709 D459 D411A-(RS V81)+STRUT    .000    .000    -11.700    SCALE    .0150

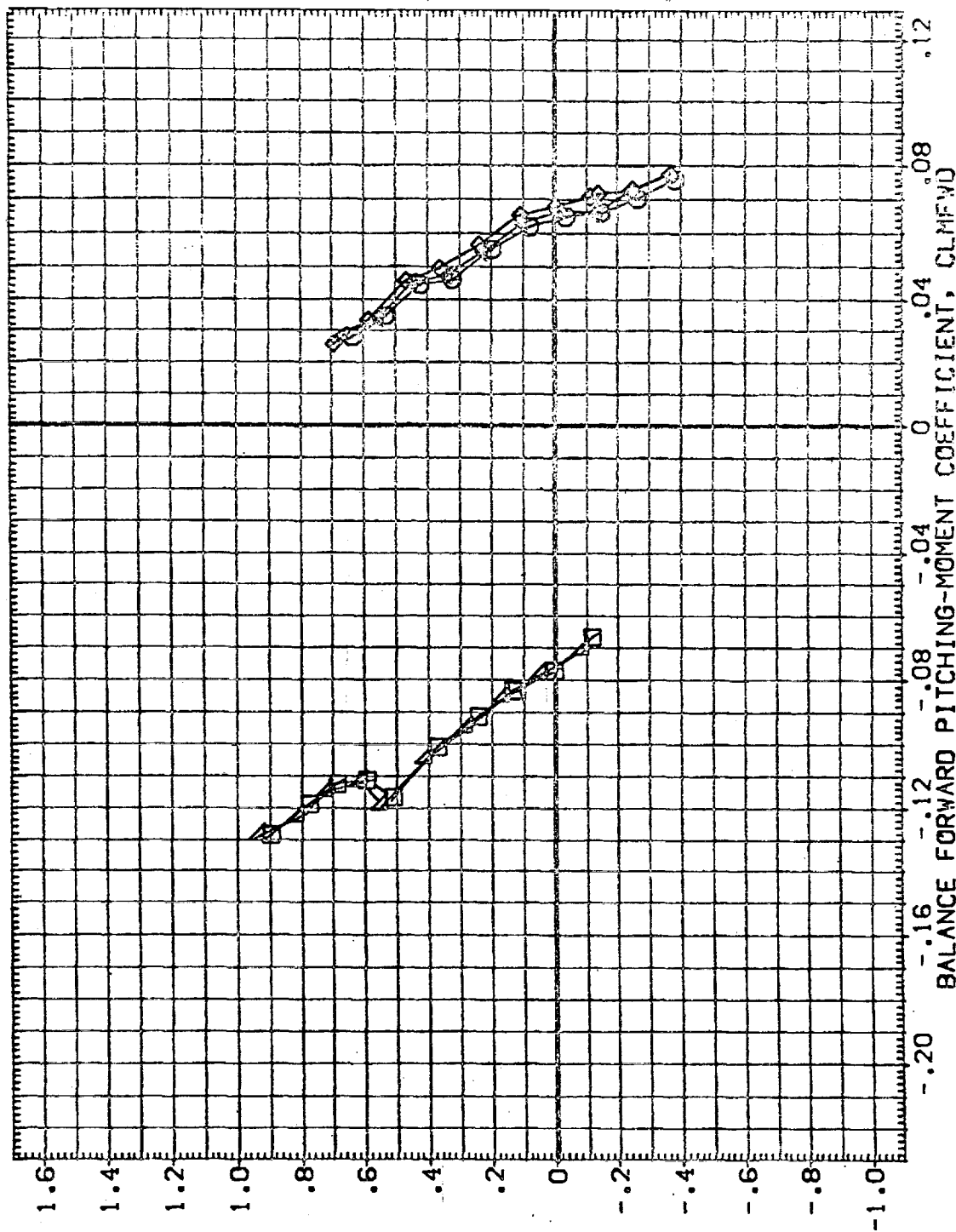


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(CER001)    ARC 66-709 DAS9 DA111A-(N24 RS V81)+STRUT+DUM STING

(CER003)    DATA NOT AVAILABLE

(CER009)    DATA NOT AVAILABLE

(CER012)    ARC 66-709 DAS9 DA111A-(RS V81)+STRUT

(CER013)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .8053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

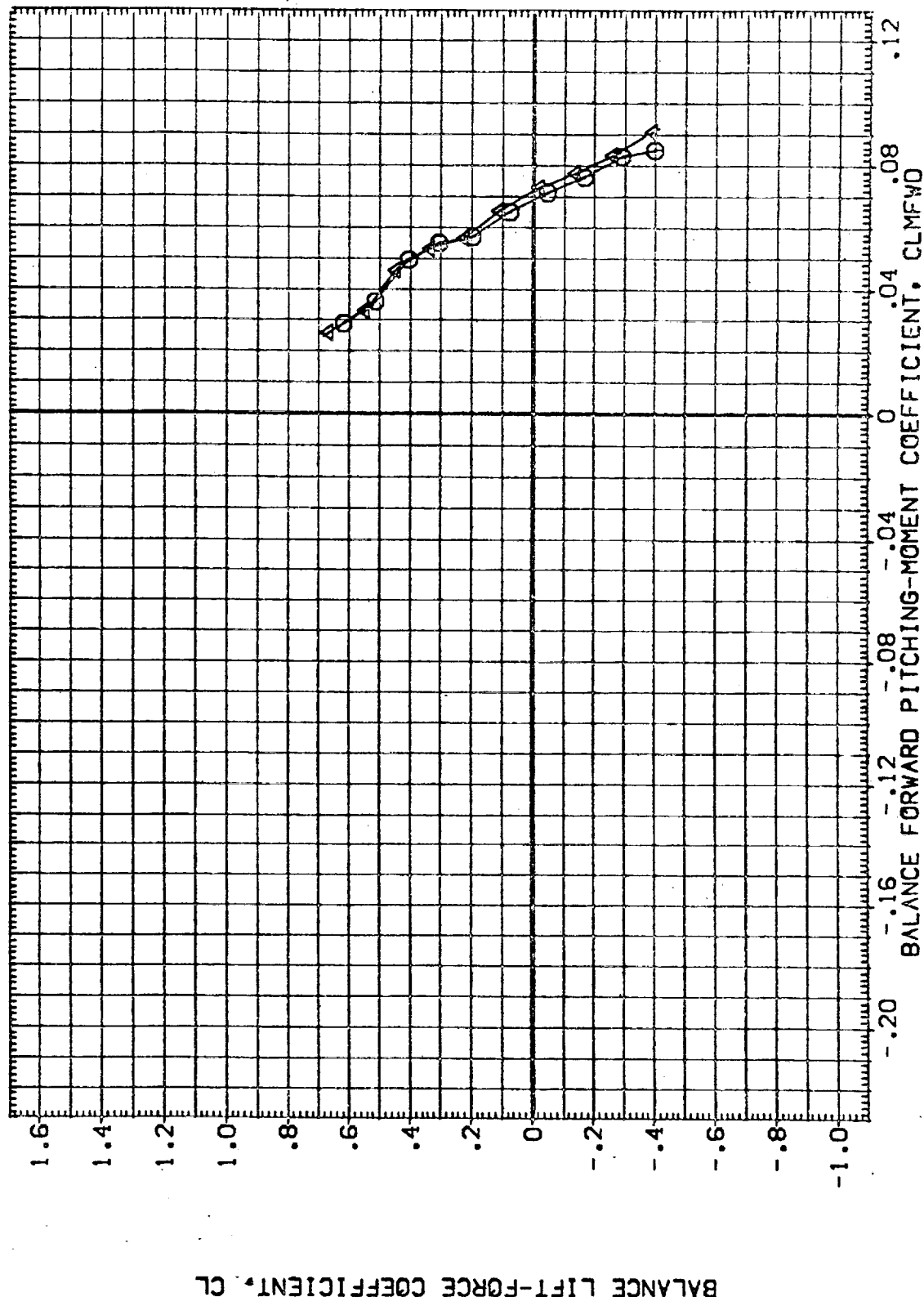


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	50% LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+QUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+QUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

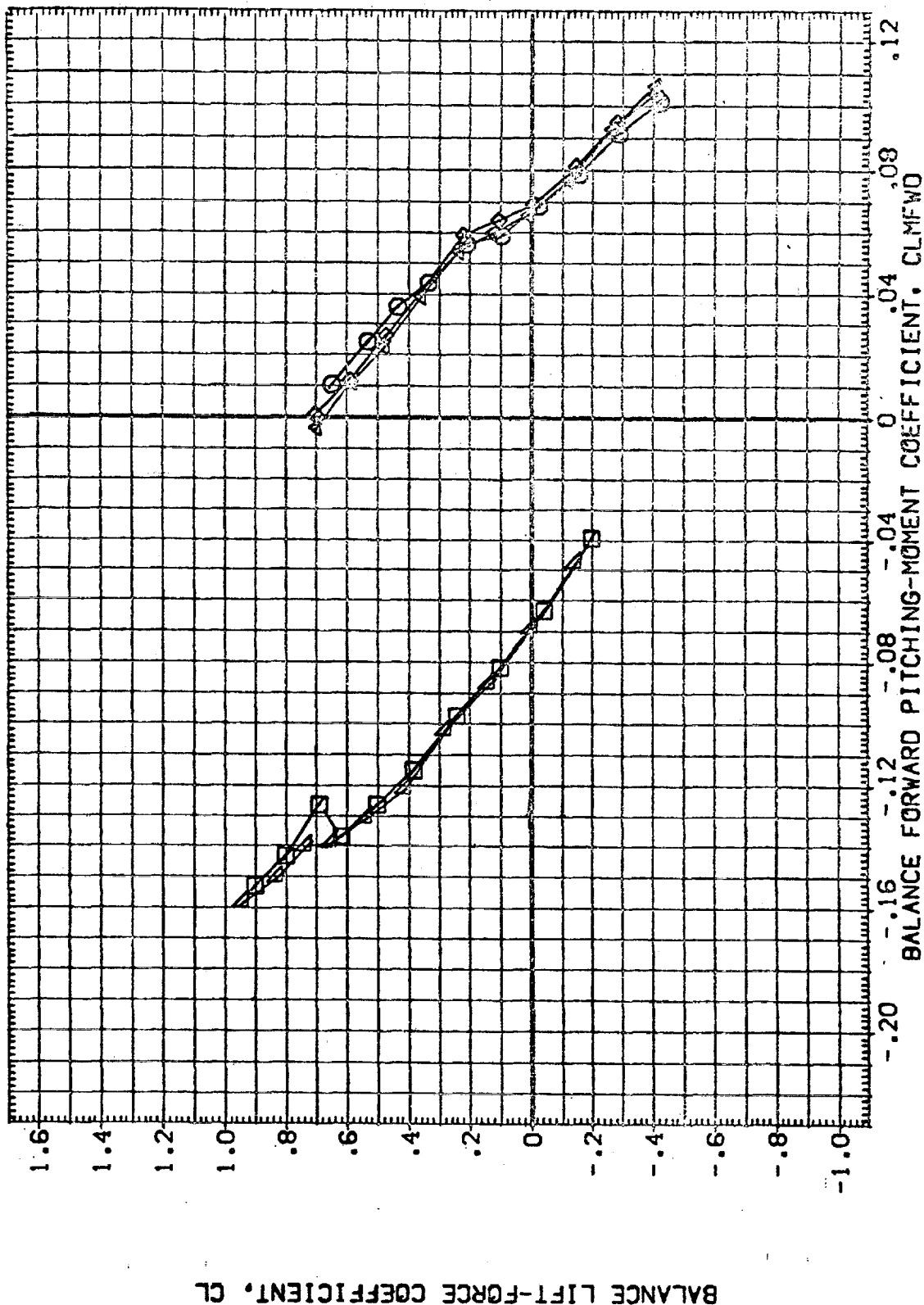


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V01)+STRUT+DUM STING

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 0A59 0A11A-(RS V01)+STRUT

(CER013) DATA NOT AVAILABLE

DATA SET SYMBOL

(CER001) 0

(CER003) 8

(CER009) 8

(CER012) 8

(CER013) 8

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

ETA

.000

.000

.000

.000

.000

ELEVON

.000

15.000

.000

.000

15.000

RSCLAP

-11.700

-11.700

-11.700

-11.700

-11.700

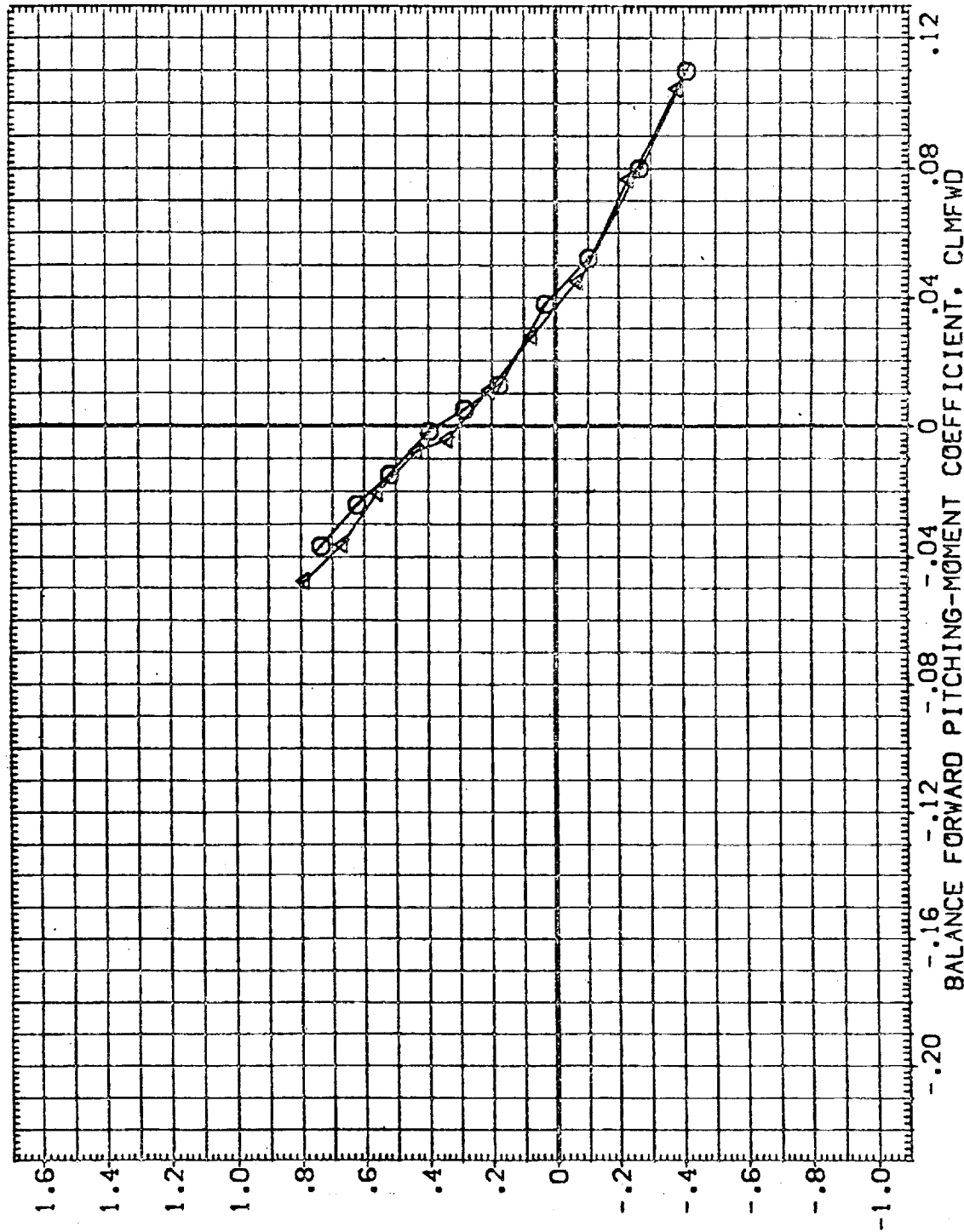


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    DELTA    ELEVON    GOLFAP

(CER001)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG    .000    .000    -11.700

(CER003)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG    .000    15.000    -11.700

(CER012)    ARC 66-709 0A59 0A11A-(RS V81)+STRUT    .000    .000    -11.700

(CER013)    ARC 66-709 0A59 0A11A-(RS V81)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

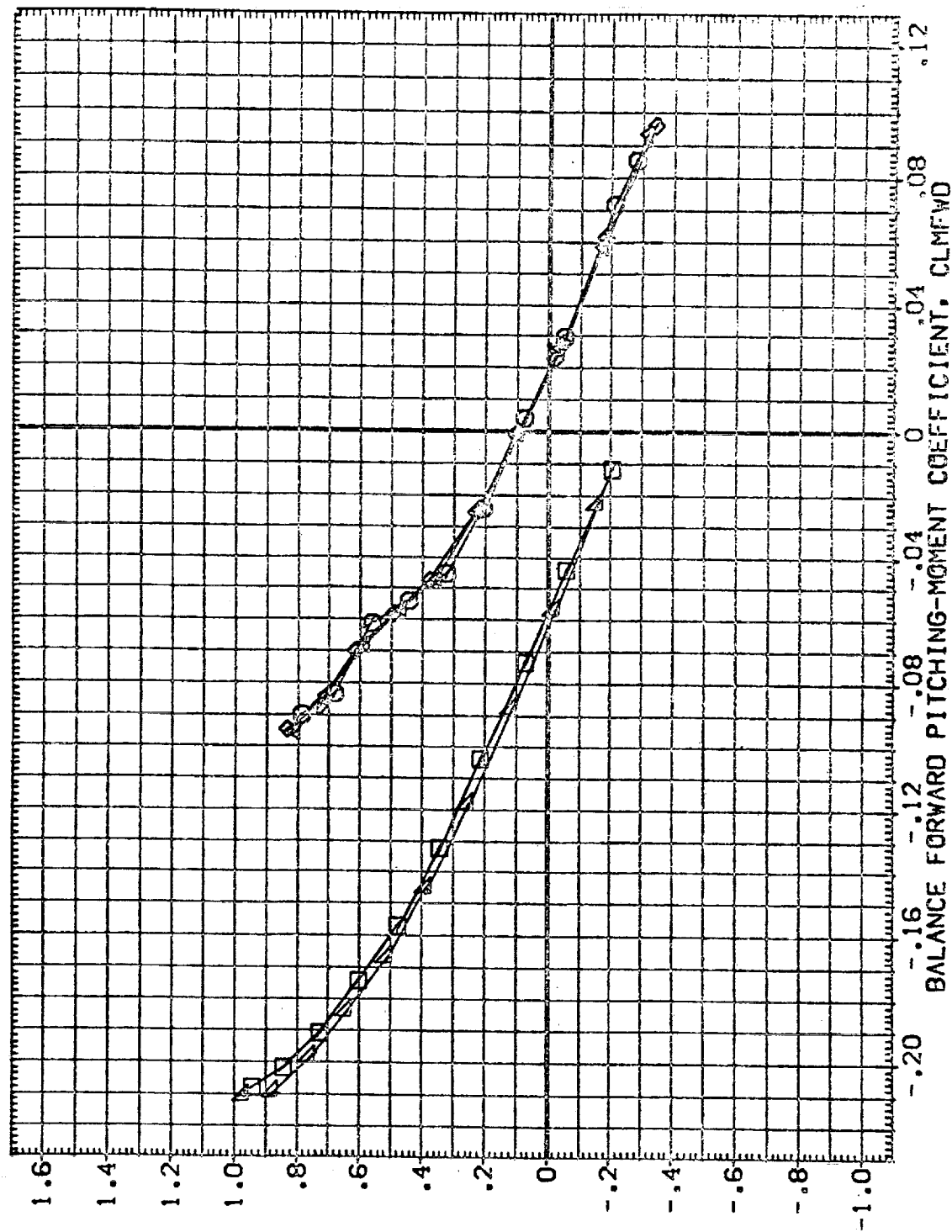
BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



BALANCE LIFT-FORCE COEFFICIENT, CL

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



REFERENCE INFORMATION

SREF 6053 59. FT.  
 LREF 5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150






BETA ELEVON EDOFLAP

.000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

CONFIGURATION DESCRIPTION

ARC 65-709 0A59 0A11A-(N21 RS V8)+STRUT+CLM STING  
 ARC 65-709 0A59 0A11A-(N21 RS V8)+STRUT+CLM STING  
 ARC 65-709 0A59 0A11A-(N21 RS V8)+STRUT  
 ARC 65-709 0A59 0A11A-(RS V8)+STRUT  
 ARC 65-709 0A59 0A11A-(RS V8)+STRUT

DATA SET SYMBOL

(CER001)   
 (CER003)   
 (CER009)   
 (CER012)   
 (CER013) 

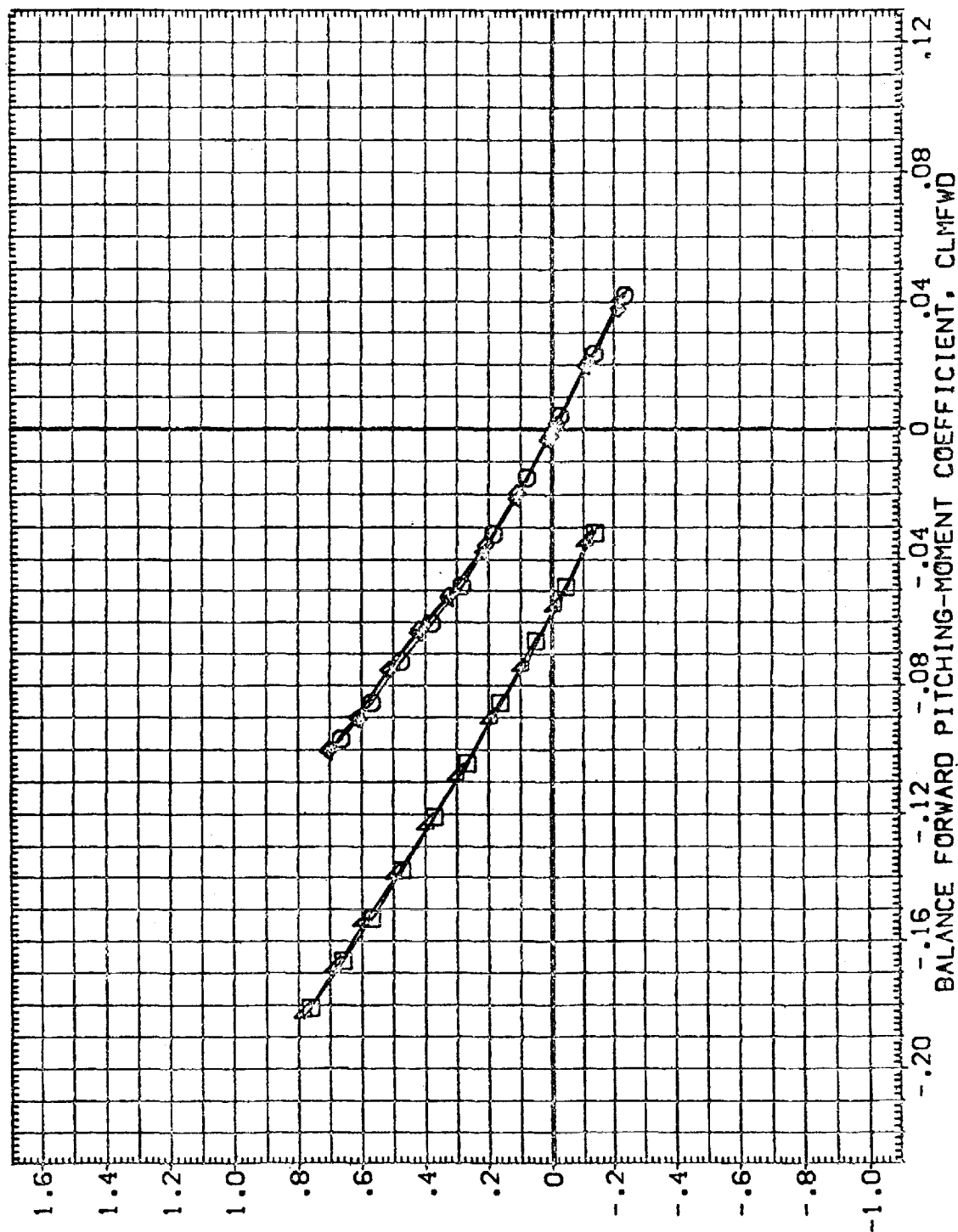


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ROFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

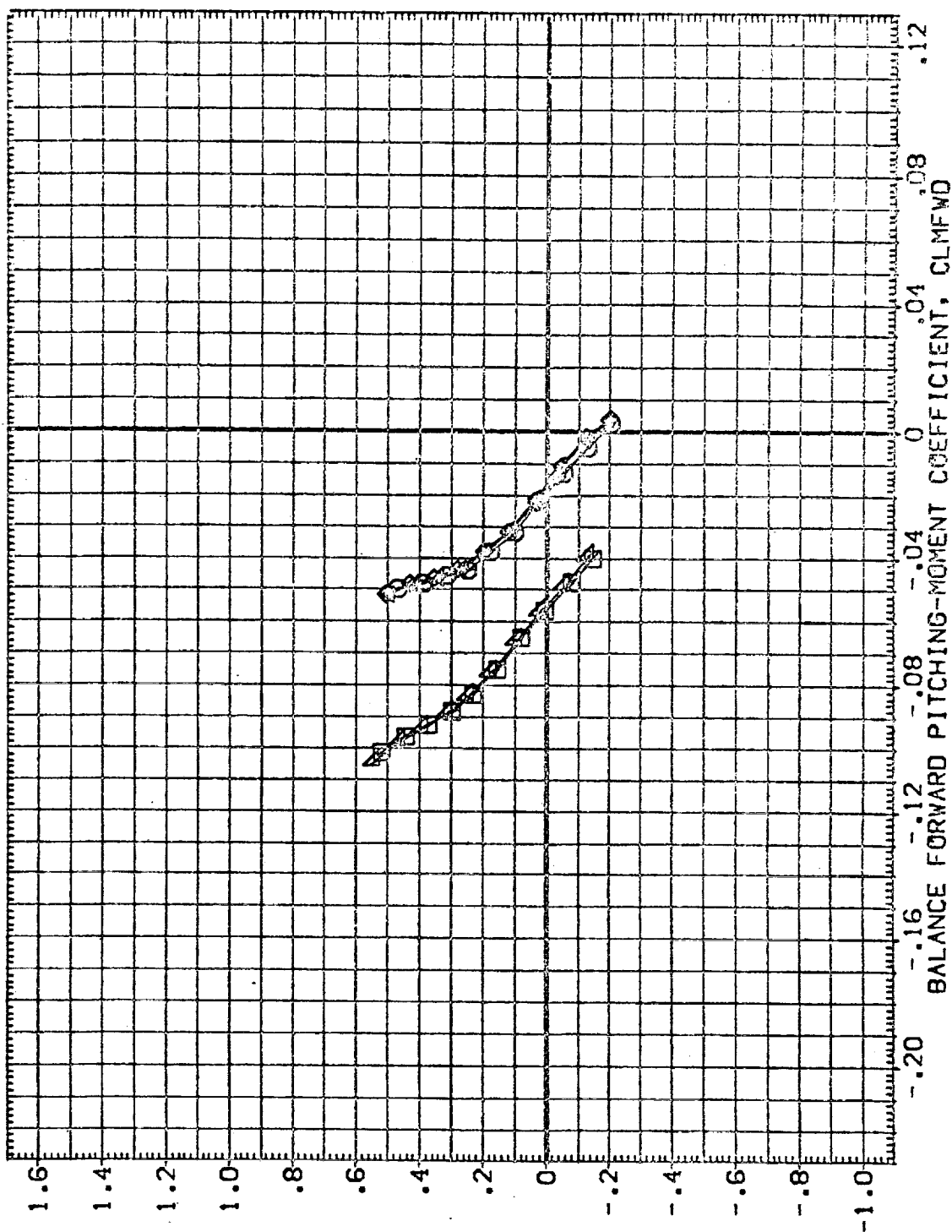


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

BETA ELEVON EOLAP  
 .000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+OLH SING  
 (CER003) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+OLH SING  
 (CER009) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT  
 (CER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT  
 (CER013) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

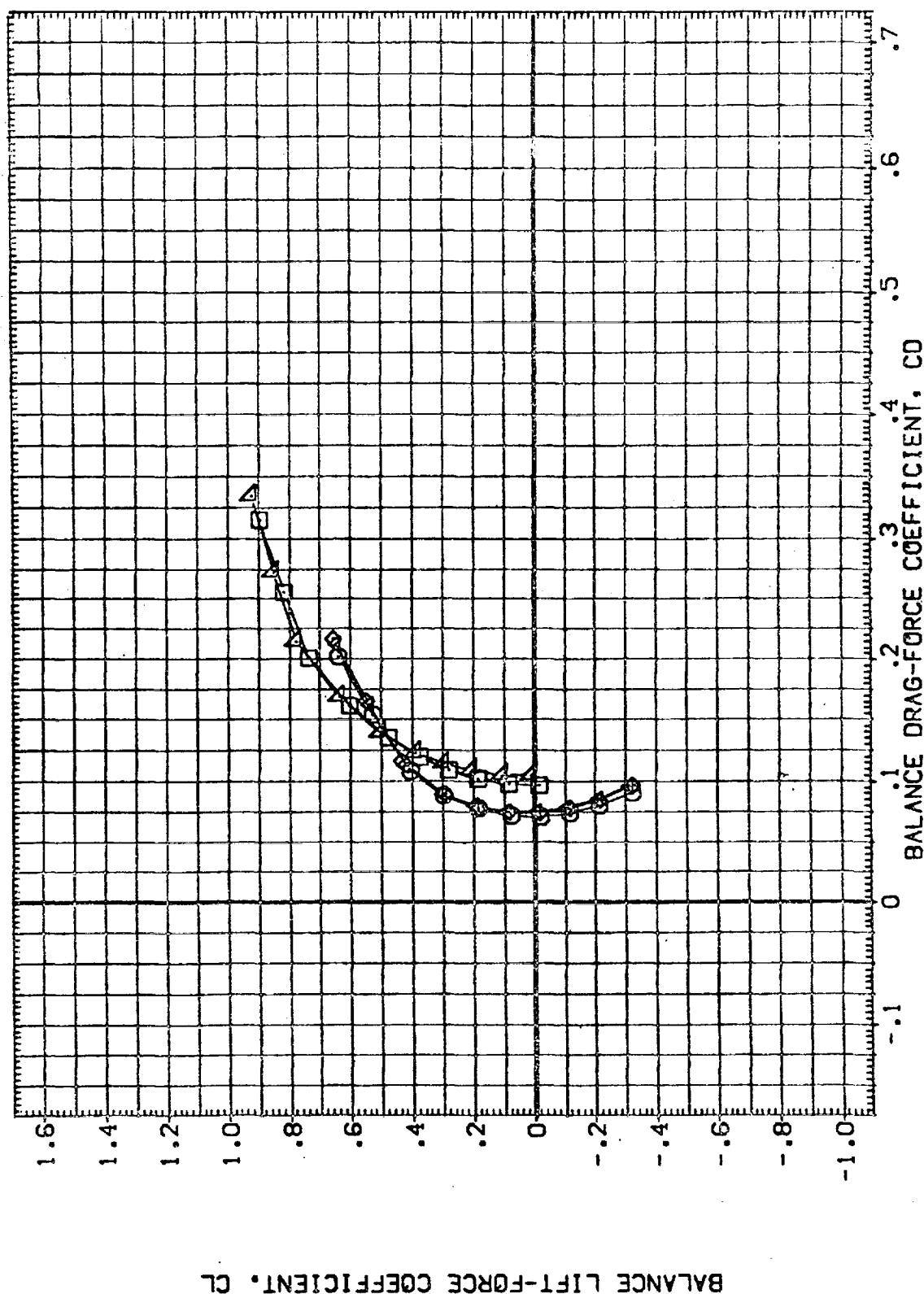


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVEN    90° LAP

(CER001)    ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+QUM STNG    .000    .000    -11.700

(CER003)    ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+QUM STNG    .000    15.000    -11.700

(CER009)    DATA NOT AVAILABLE    .000    .000    -11.700

(CER012)    ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT    .000    .000    -11.700

(CER013)    ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .5053    50.53    FT.

LREF    .5035    50.35    FT.

GREF    1.1710    117.10    IN.

XMRP    12.6255    1262.55    IN.

YMRP    .0000    0.0000    IN.

ZMRP    -.3750    -37.50    IN.

SCALE    .0150

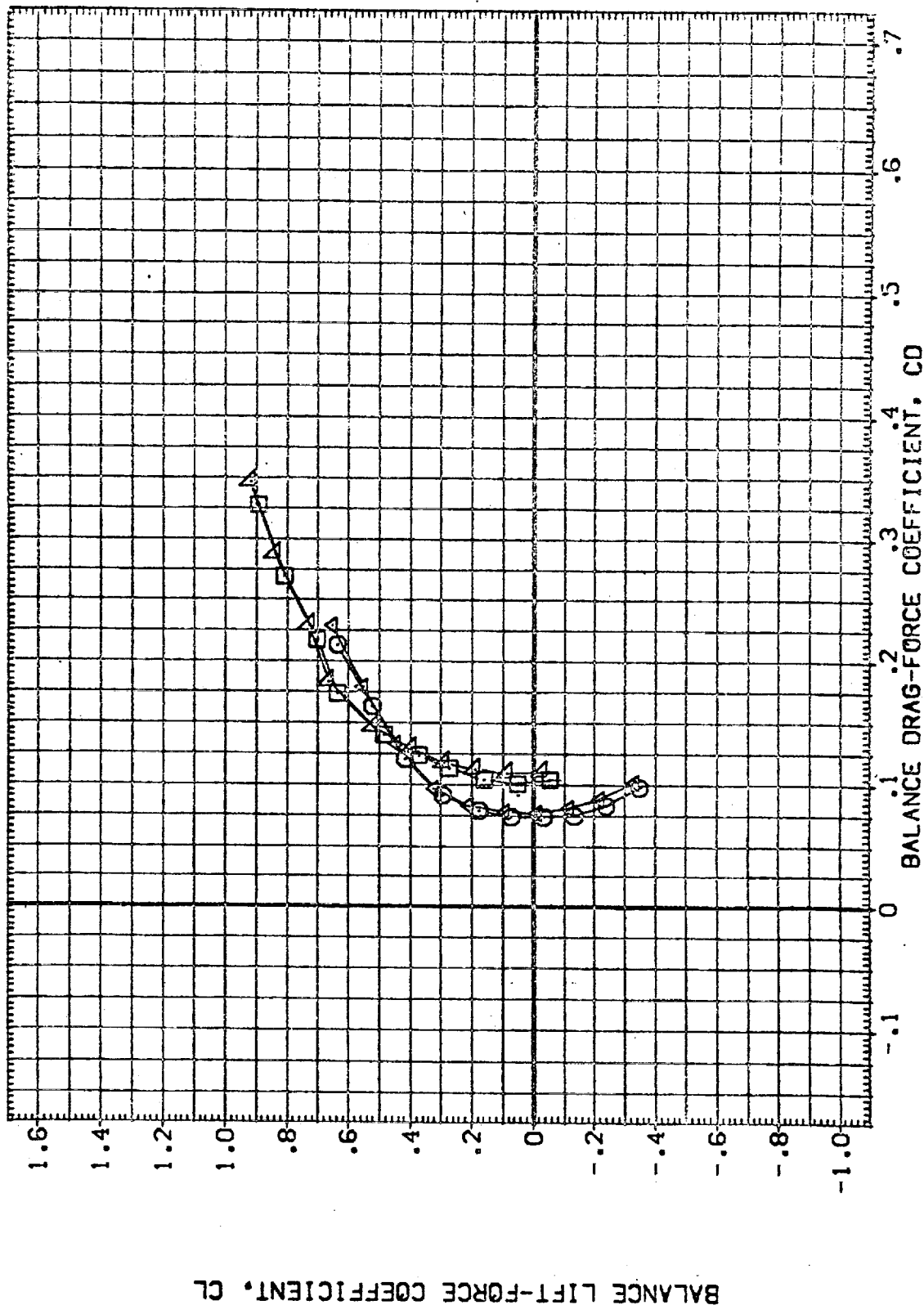


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-703 DAS9 DALLA-(N21 RS V8)+STRUT+CLM STNG

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DAS9 DALLA-(RS V8)+STRUT

(CER013) DATA NOT AVAILABLE

BETA

ELEVON

BOFLAP

.000

15.000

-11.700

.000

-11.700

.000

-11.700

.000

-11.700

.000

15.000

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

50. FT.

FT.

IN.

IN.

IN.

IN.

.0150

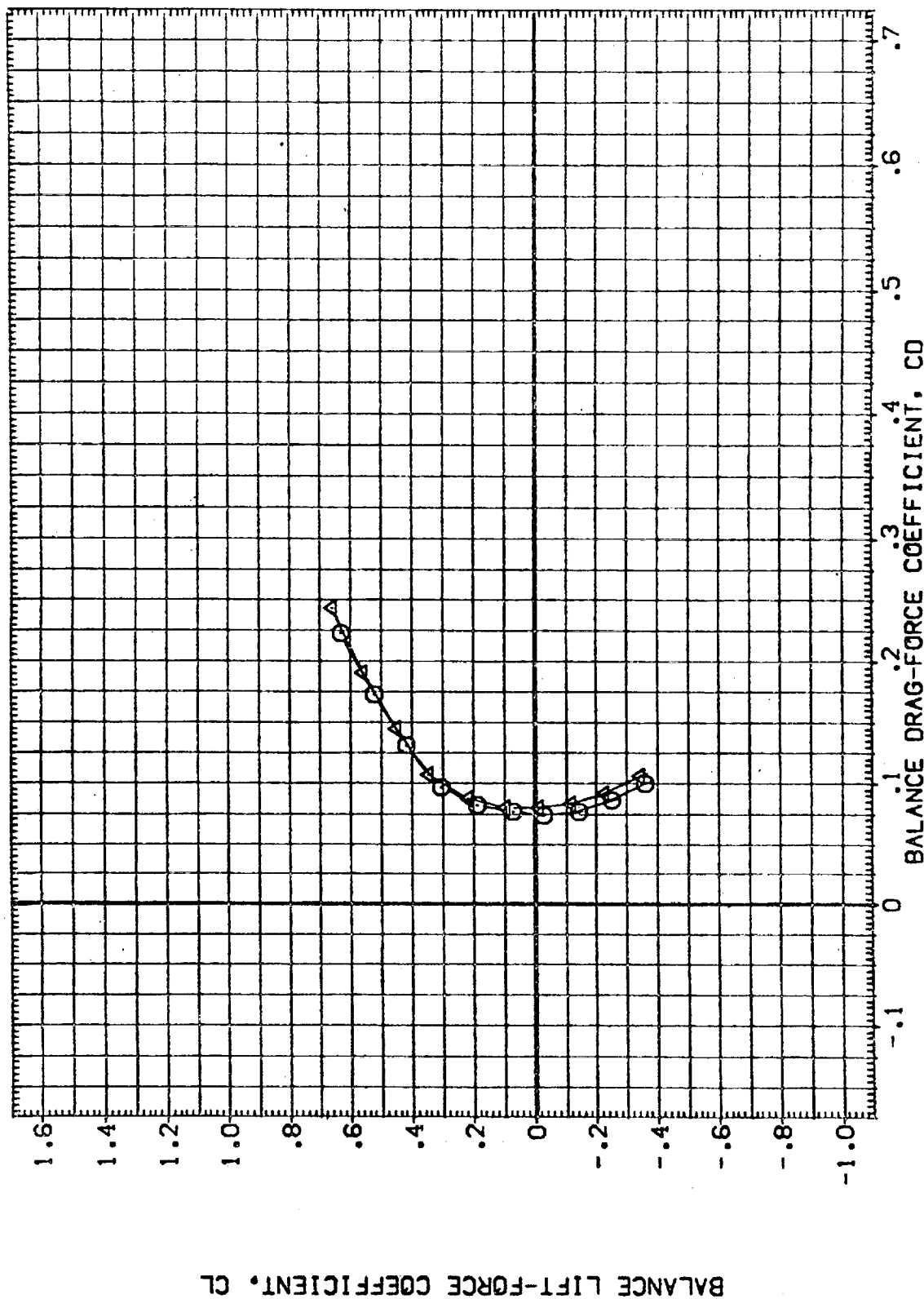


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 QA59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
{CER003}	ARC 66-709 QA59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
{CER008}	ARC 66-709 QA59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
{CER012}	ARC 66-709 QA59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
{CER013}	ARC 66-709 QA59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

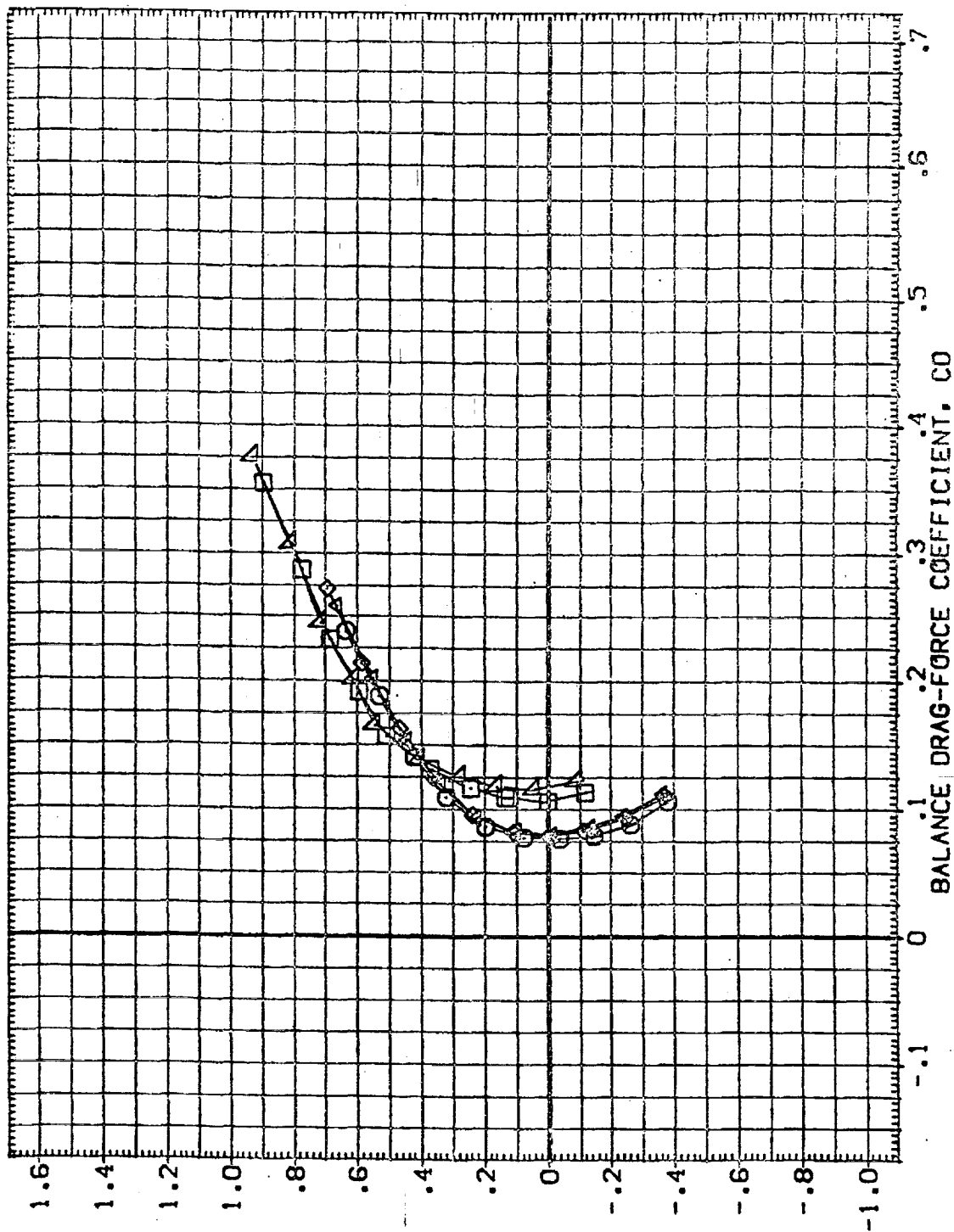


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	WGLAP	REFERENCE INFORMATION
(CER001)	ARC 66-703 DAS9 DALLA-(N21 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-703 DAS9 DALLA-(RS V8)+STRUT	.000	.000	-11.700	XMPP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

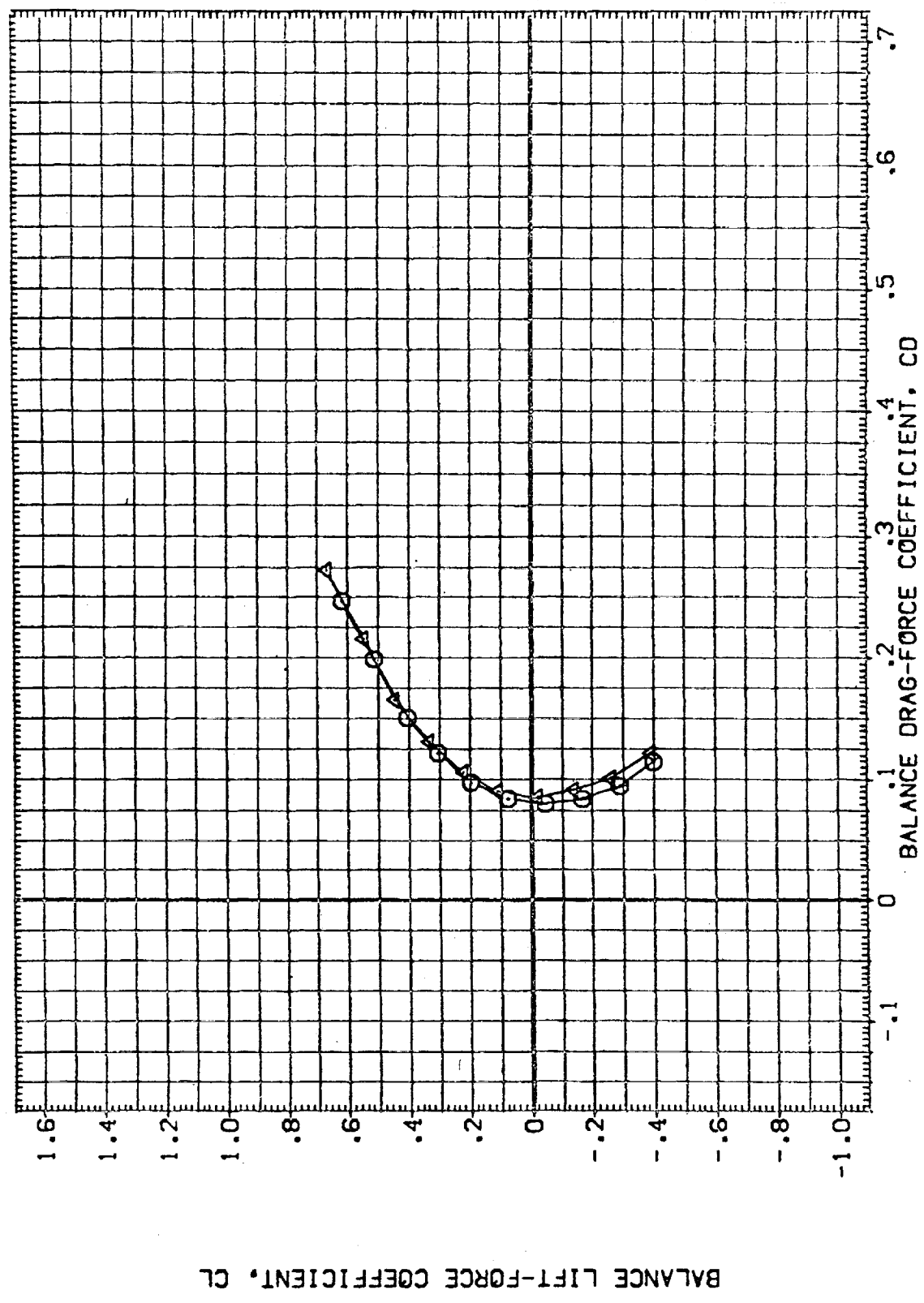


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[CER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

[CER003] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

[CER009] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT

[CER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

[CER013] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .0053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

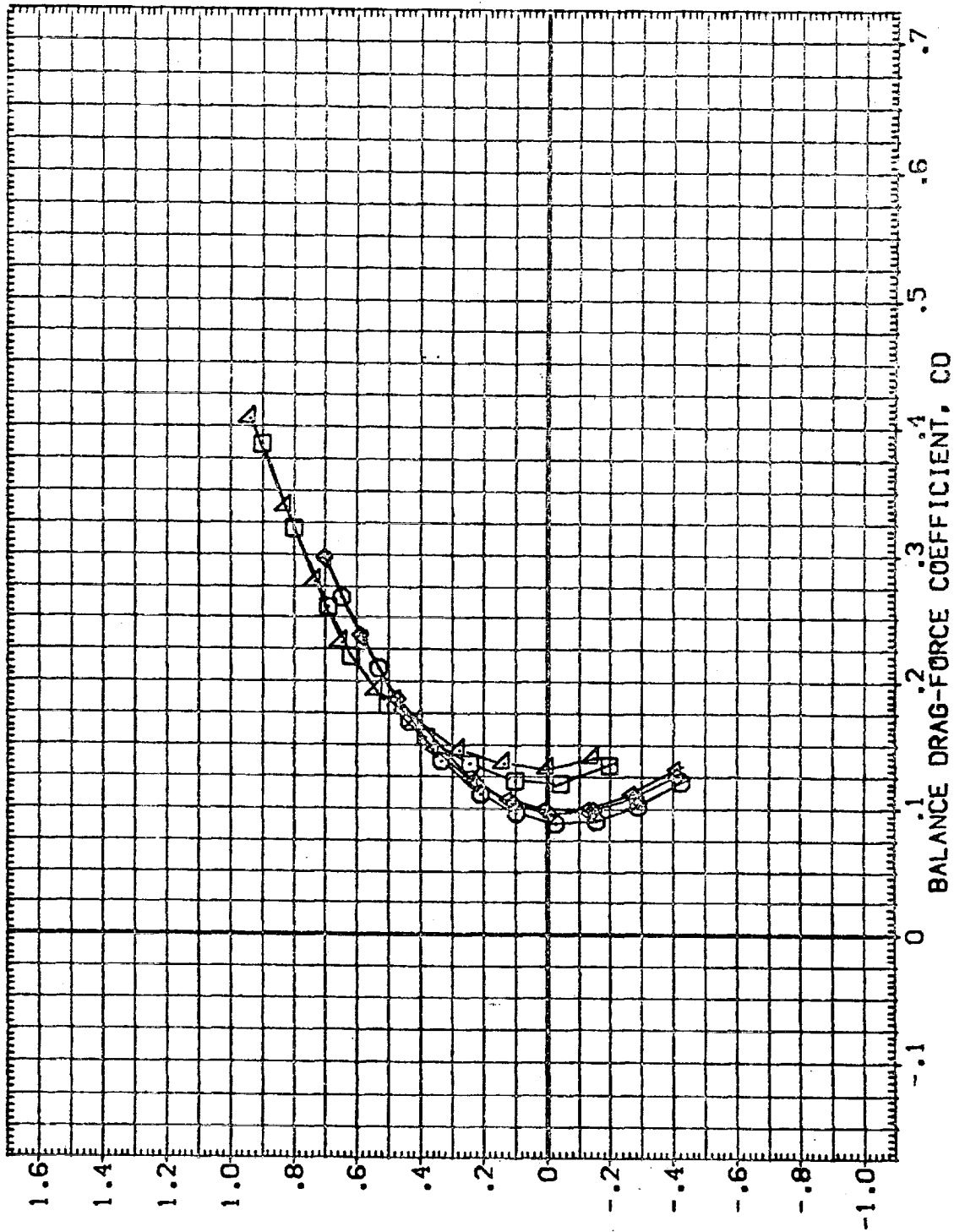


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    SOFLAP

(CER001)    ARC 56-709 QAS9 Q111A-(N21 RS V8)+STRUT+DUM STNG    .000    .000    -11.700

(CER003)    DATA NOT AVAILABLE    .000    15.000    -11.700

(CER009)    DATA NOT AVAILABLE    .000    .000    -11.700

(CER012)    ARC 66-709 QAS9 Q111A-(RS V8)+STRUT    .000    .000    -11.700

(CER013)    DATA NOT AVAILABLE    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

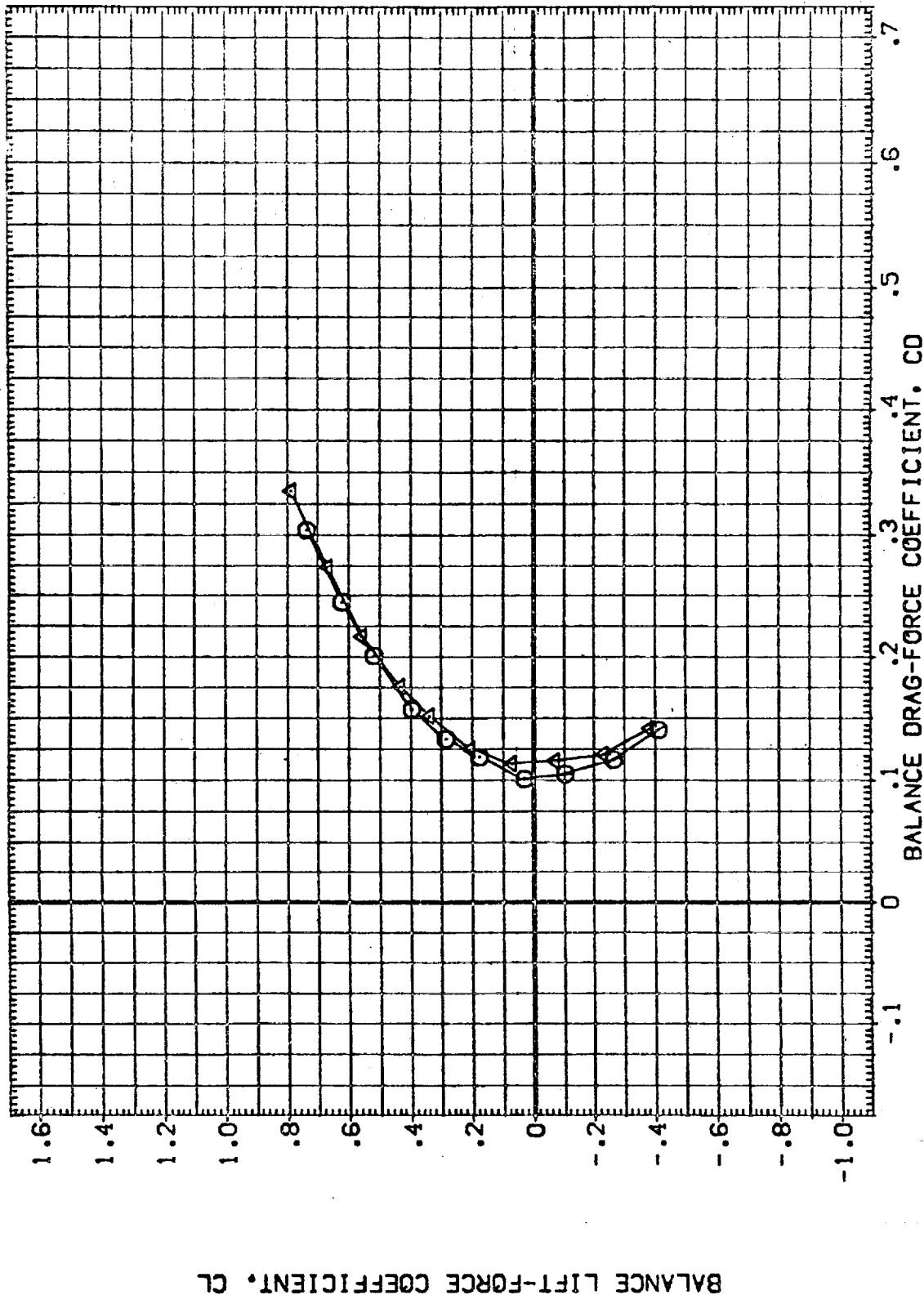


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	OUTLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+OJM STING	.000	.000	-11.700	SREF .5033 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+OJM STING	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRF 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

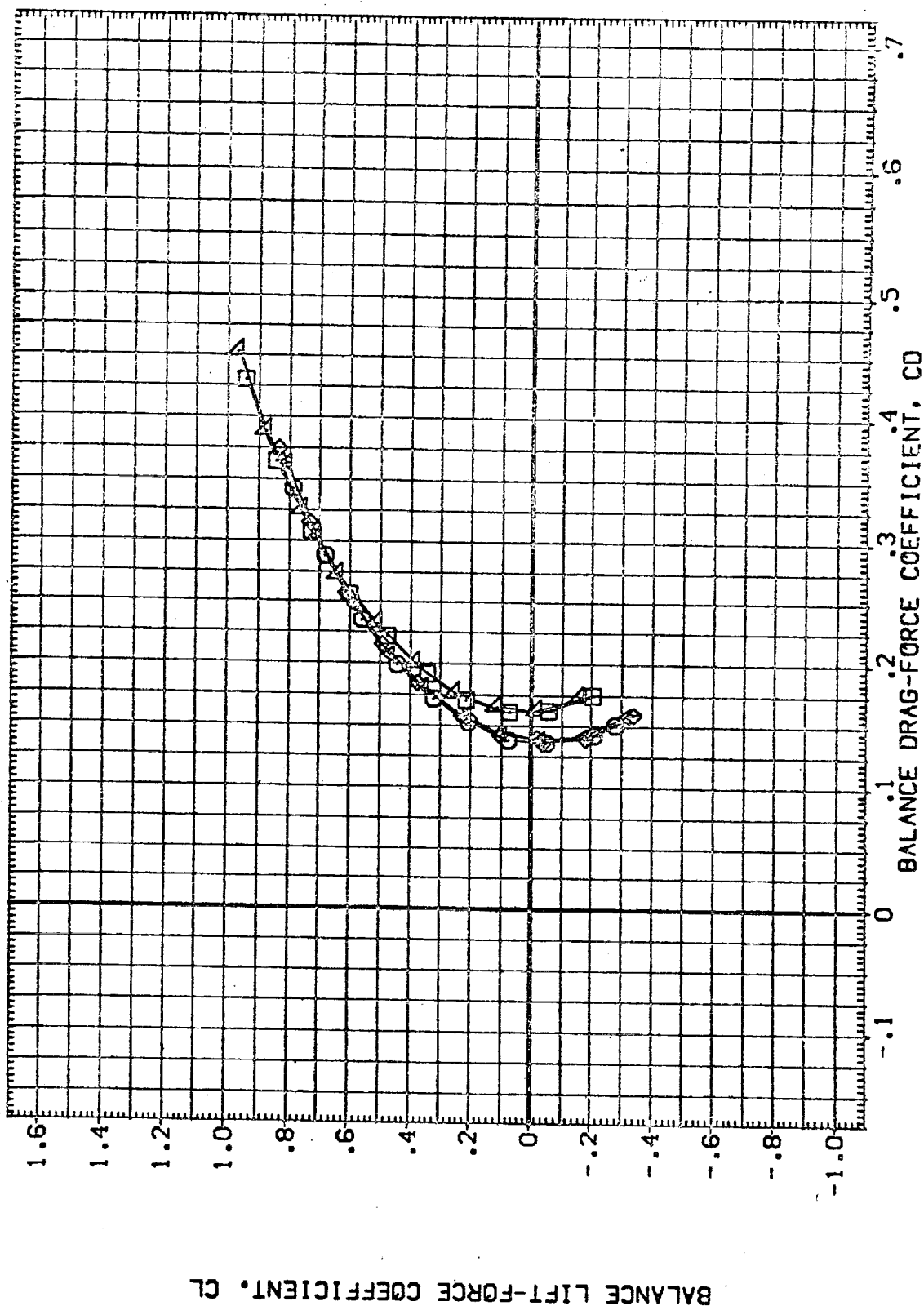


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	SREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

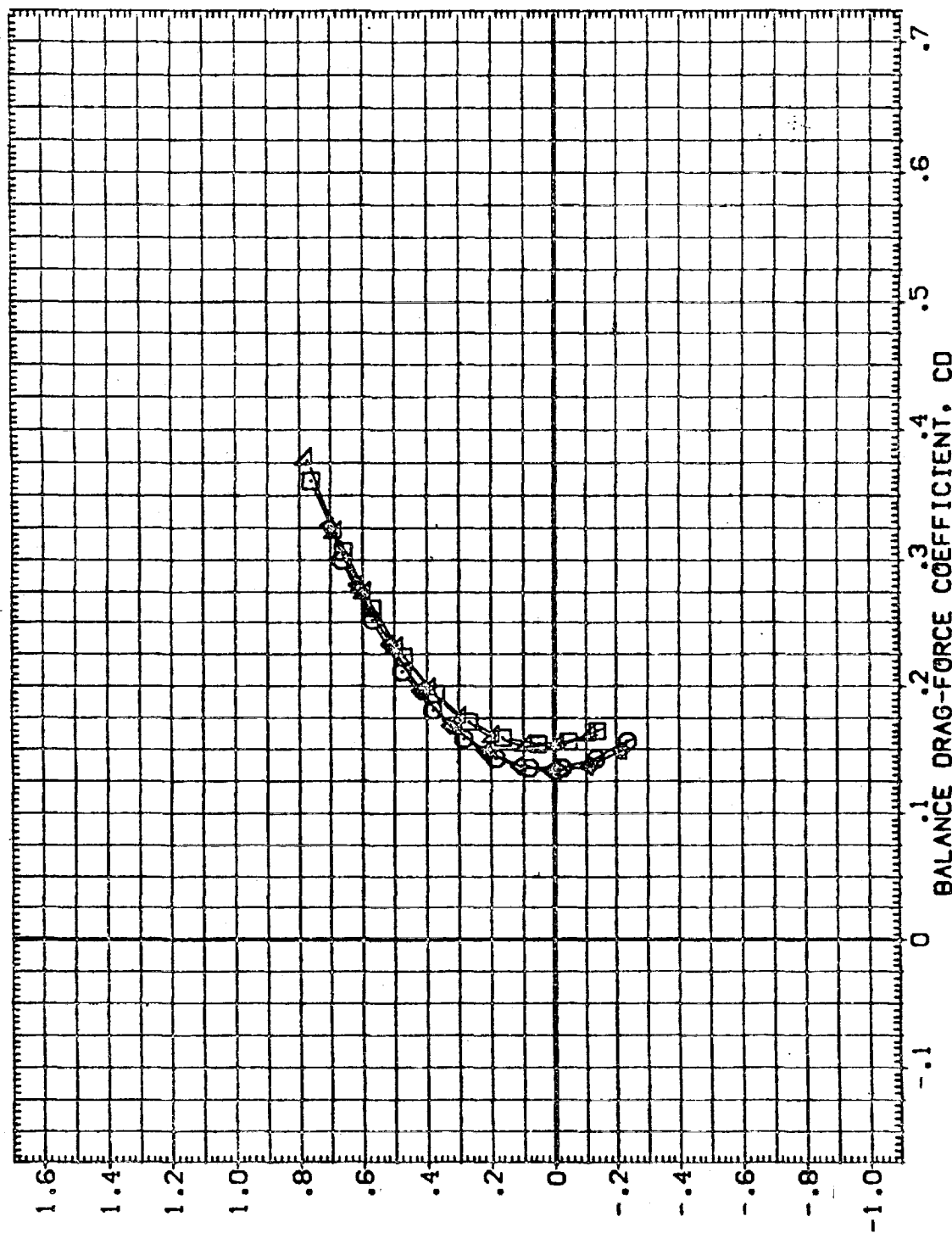


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER003)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

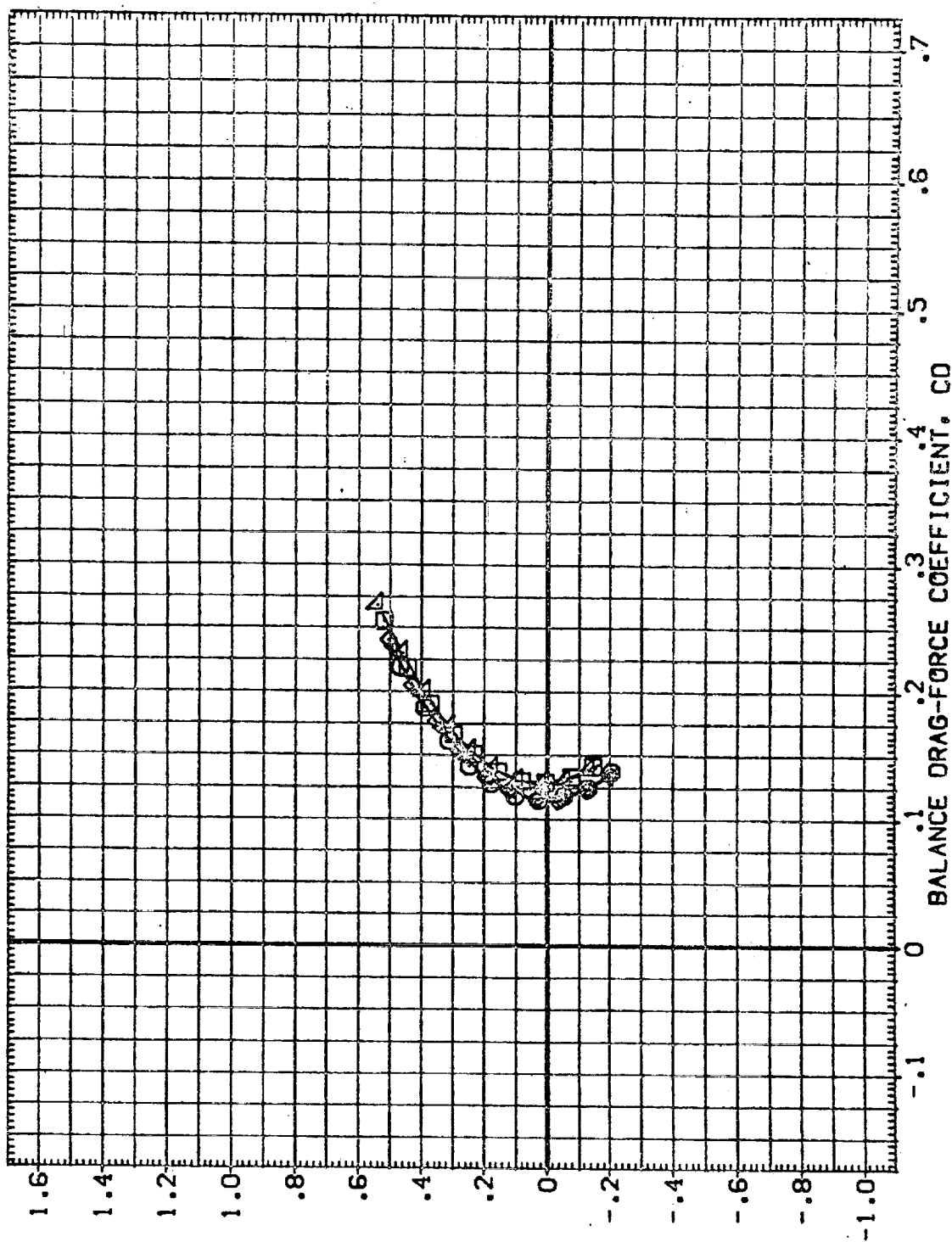


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

REFERENCE INFORMATION

SREF .6053 50 FT.  
 LREF .5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

BETA ELEVON SOFLAP

.000 .000 -11.700  
 .000 15.000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (GER003) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (GER009) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT  
 (GER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 (GER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

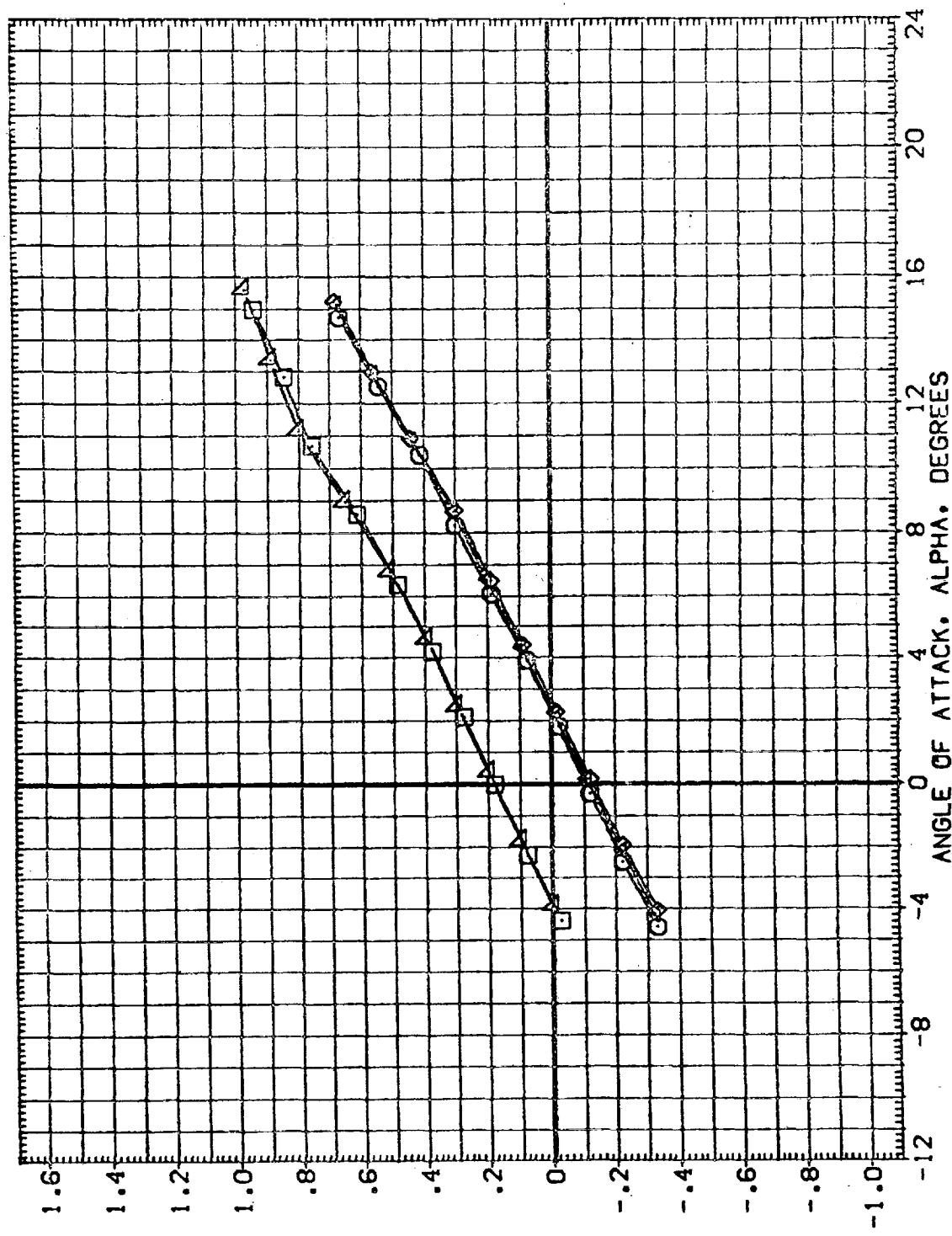


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)  
(GER003)  
(GER009)  
(GER012)  
(GER013)

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
DATA NOT AVAILABLE  
ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON 80FLAP  
.000 .000 -11.700  
.000 15.000 -11.700  
.000 .000 -11.700  
.000 .000 -11.700  
.000 15.000 -11.700

REFERENCE INFORMATION  
SREF 6053 50.FT.  
LREF 5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

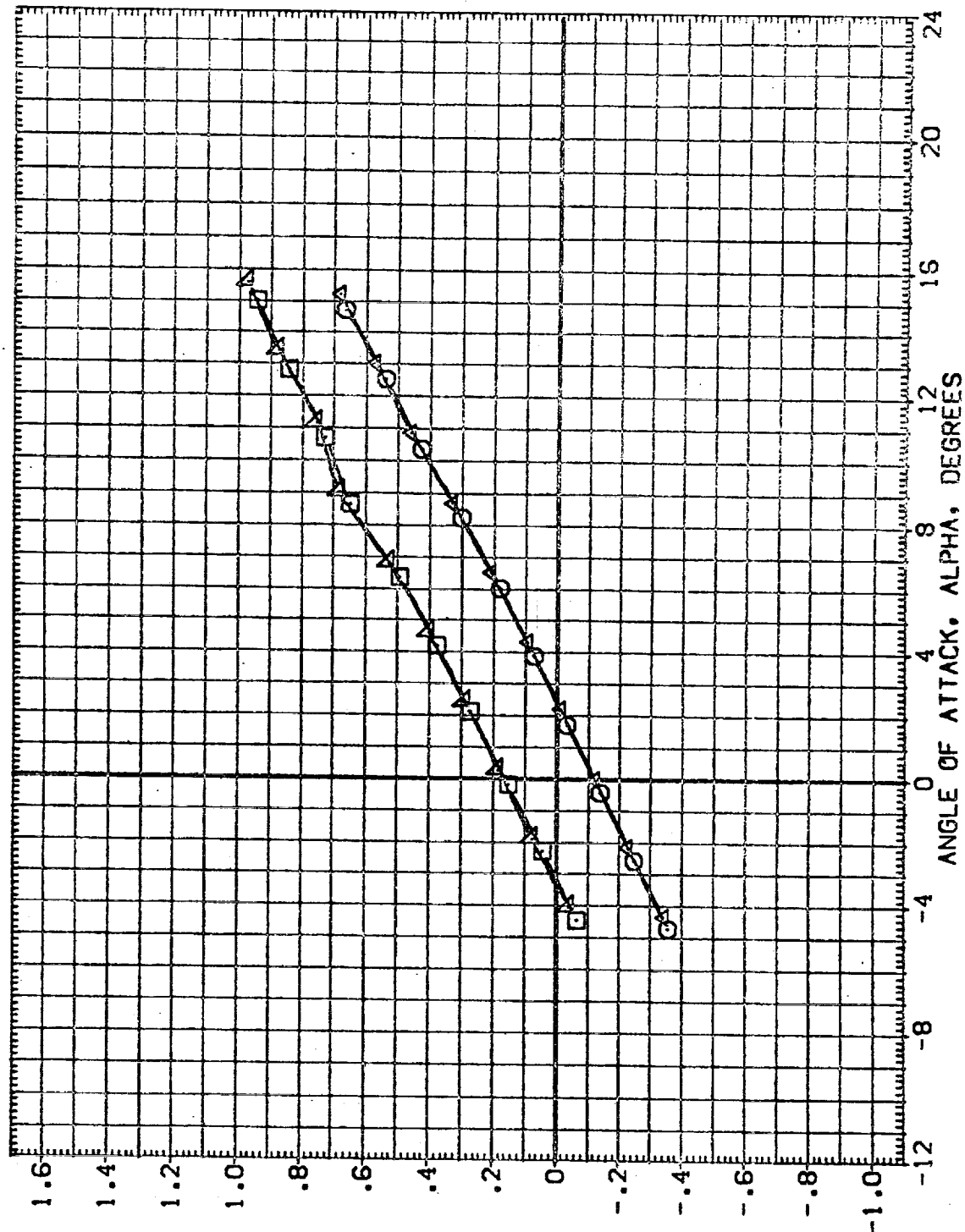


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{06R001} ARC 66-703 0A59 0A11A-(N24 RS V8)\*STRUT+0JM STNG

{06R003} DATA NOT AVAILABLE

{06R009} DATA NOT AVAILABLE

{06R012} ARC 66-708 0A59 0A11A-(RS V8)\*STRUT

{06R013} DATA NOT AVAILABLE

BETA

ELEVON

60FLAP

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

REFERENCE INFORMATION

SREF 6053 50.FT.

LREF 5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

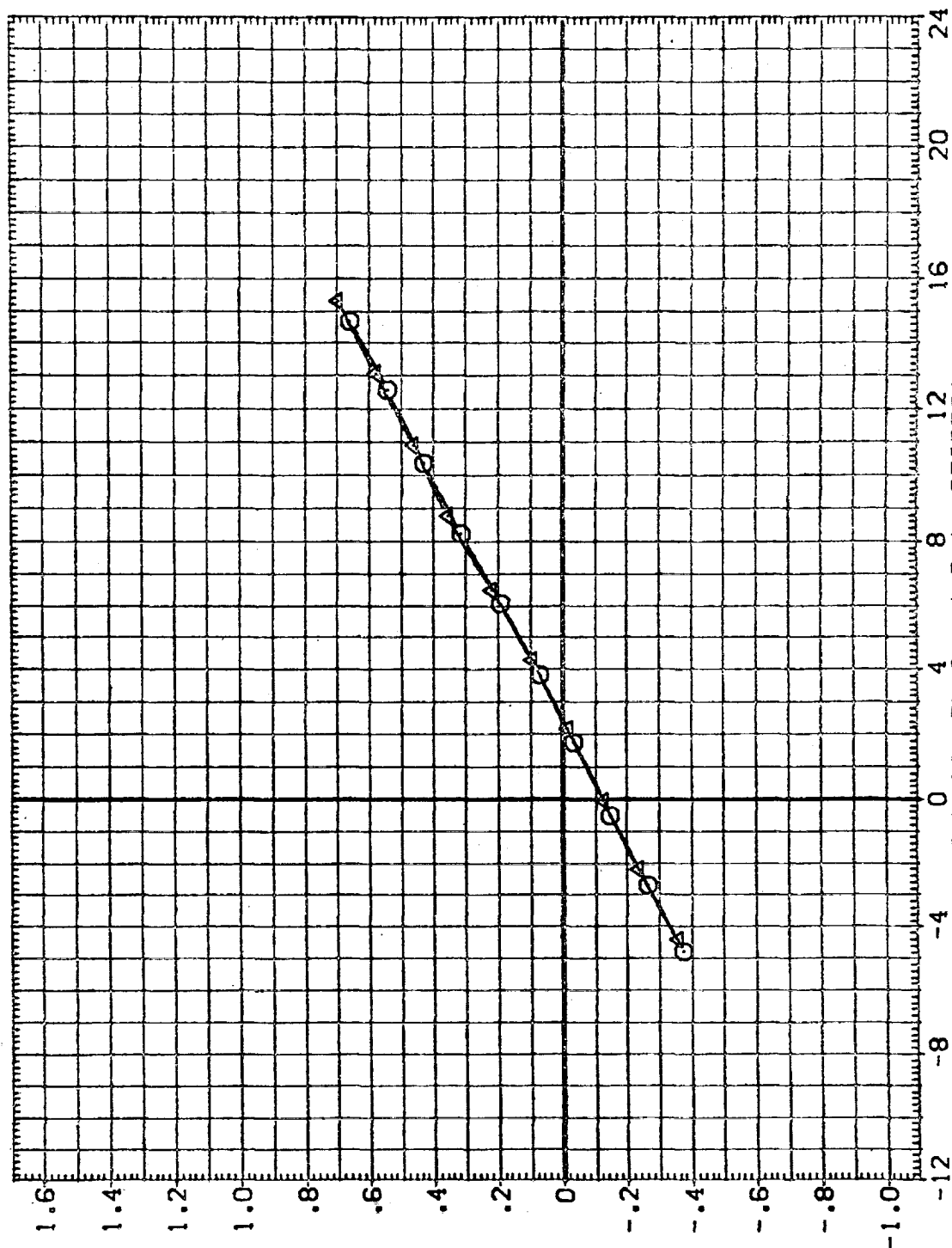


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{GER001} ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING

{GER003} ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING

{GER009} ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT

{GER012} ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

{GER013} ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA ELEVON OVERLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

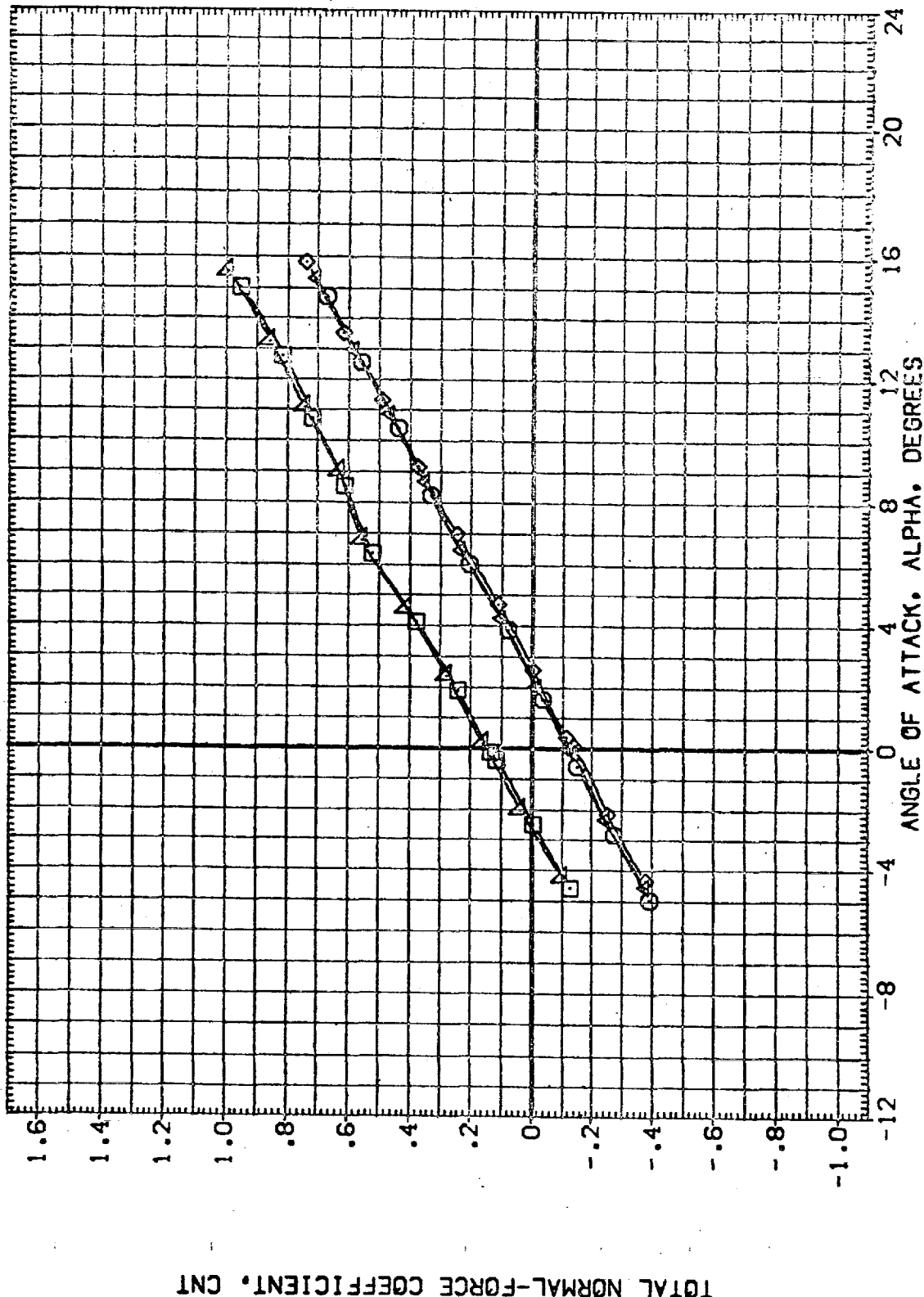
BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150





REFERENCE INFORMATION

SREF	.2053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON

BOFLAP	-11.700
ELEVON	.000
SETA	.000
BOFLAP	-11.700
ELEVON	.000
SETA	.000
BOFLAP	-11.700
ELEVON	.000
SETA	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+CUH STNG
(GER003)	DATA NOT AVAILABLE
(GER009)	DATA NOT AVAILABLE
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT
(GER013)	DATA NOT AVAILABLE

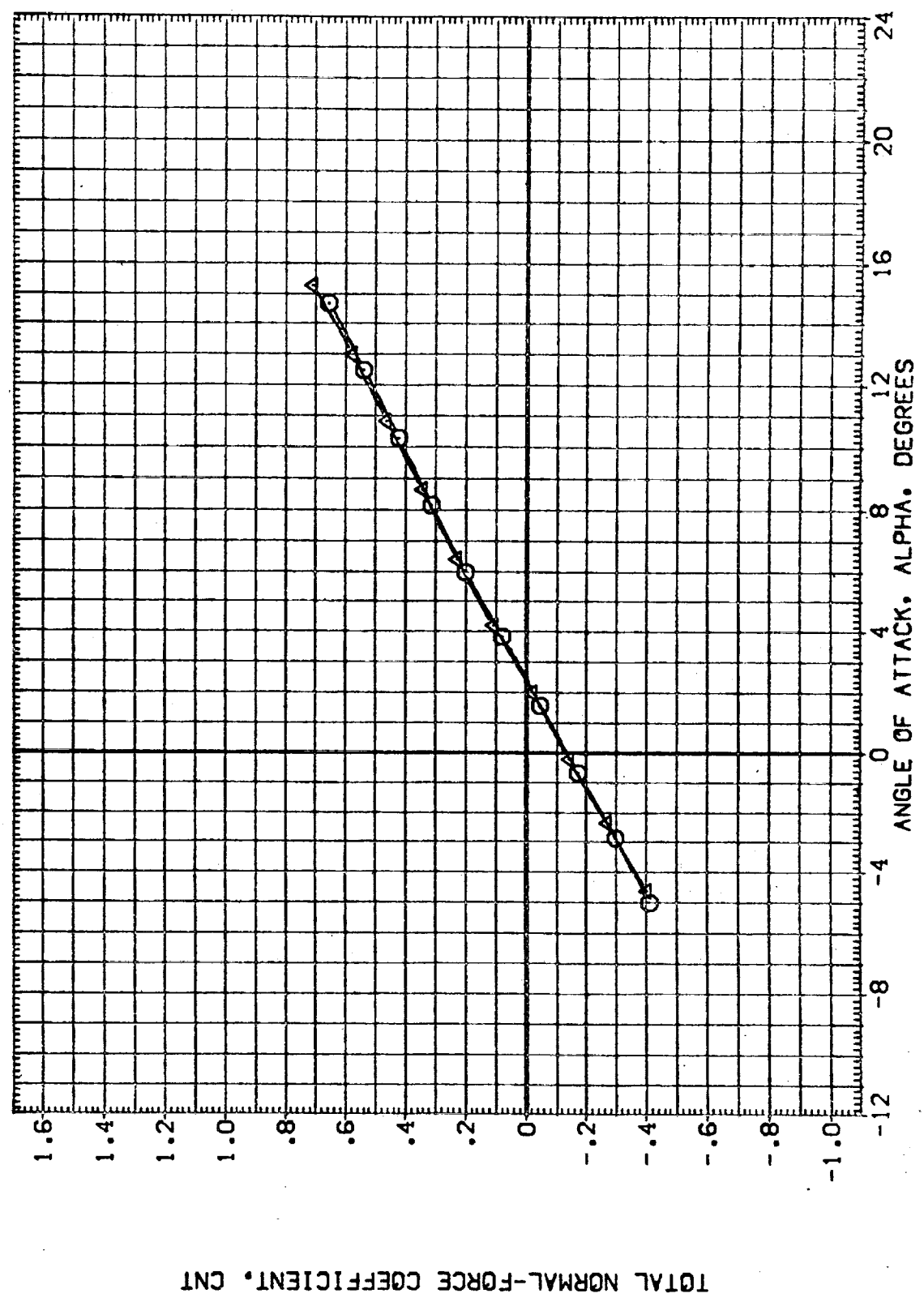


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT	.000	.000	-11.700	EREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

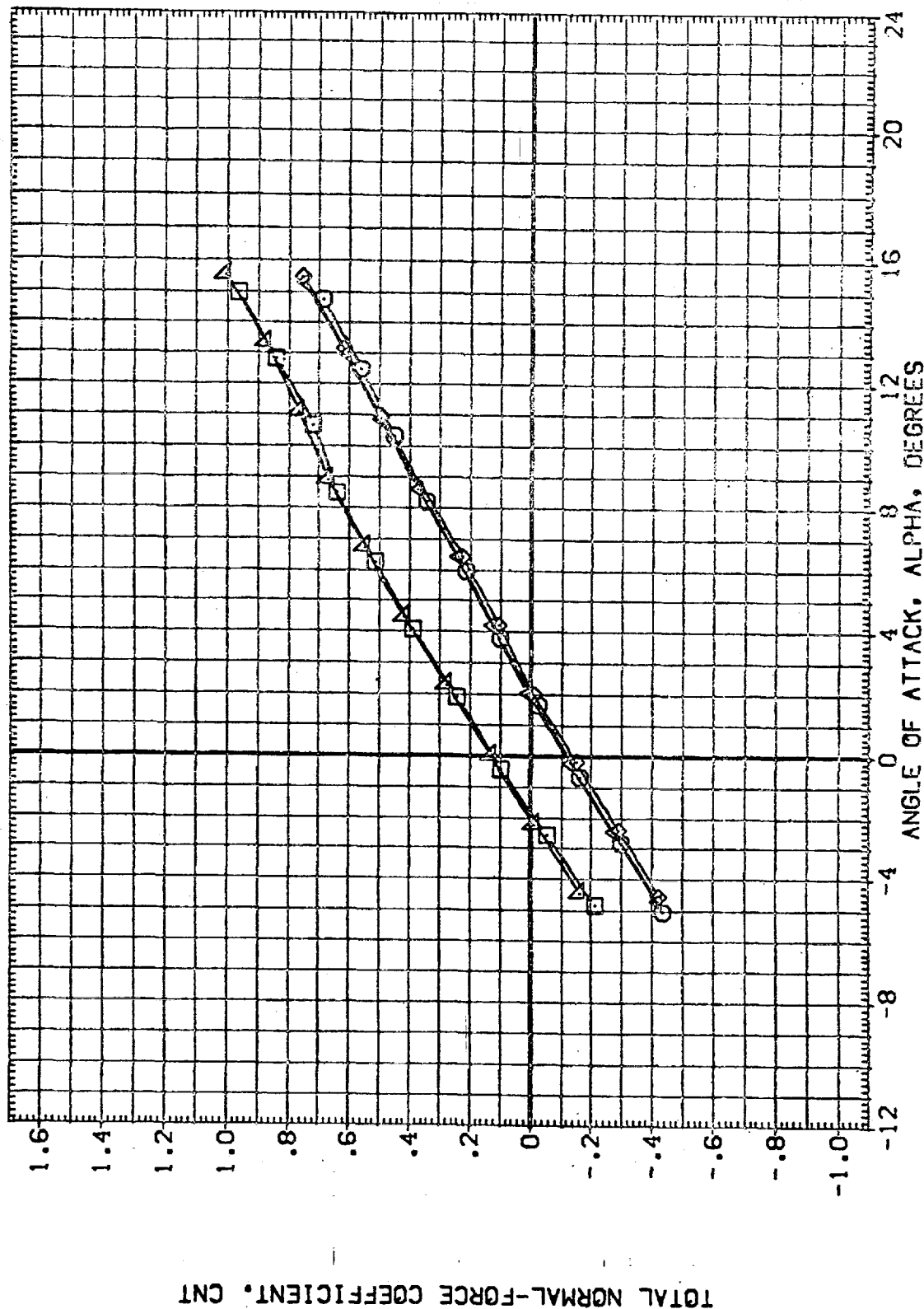


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

REFERENCE INFORMATION

SREF	.8053	53. FT.
LKREF	.5935	FT.
BREF	1.1710	IN.
YMRP	12.6255	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	80FLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+OLM STING
DATA NOT AVAILABLE
ARC 66-709 QAS9 0A11A-(RS V8)-STRUT
DATA NOT AVAILABLE

DATA SET SYMBOL

{GER001}	○
{GER003}	×
{GER009}	△
{GER012}	◇
{GER013}	▽

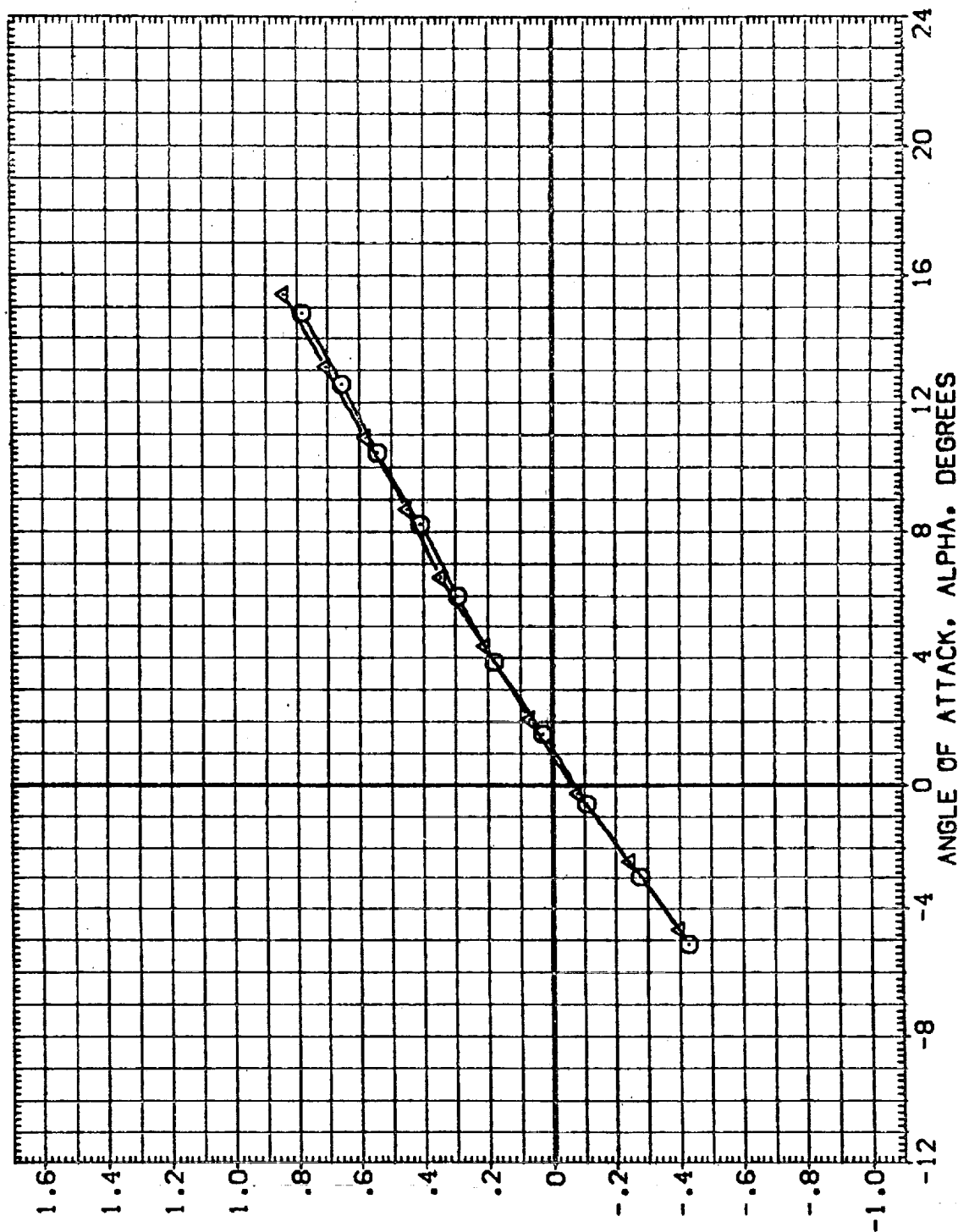


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SCFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF 5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

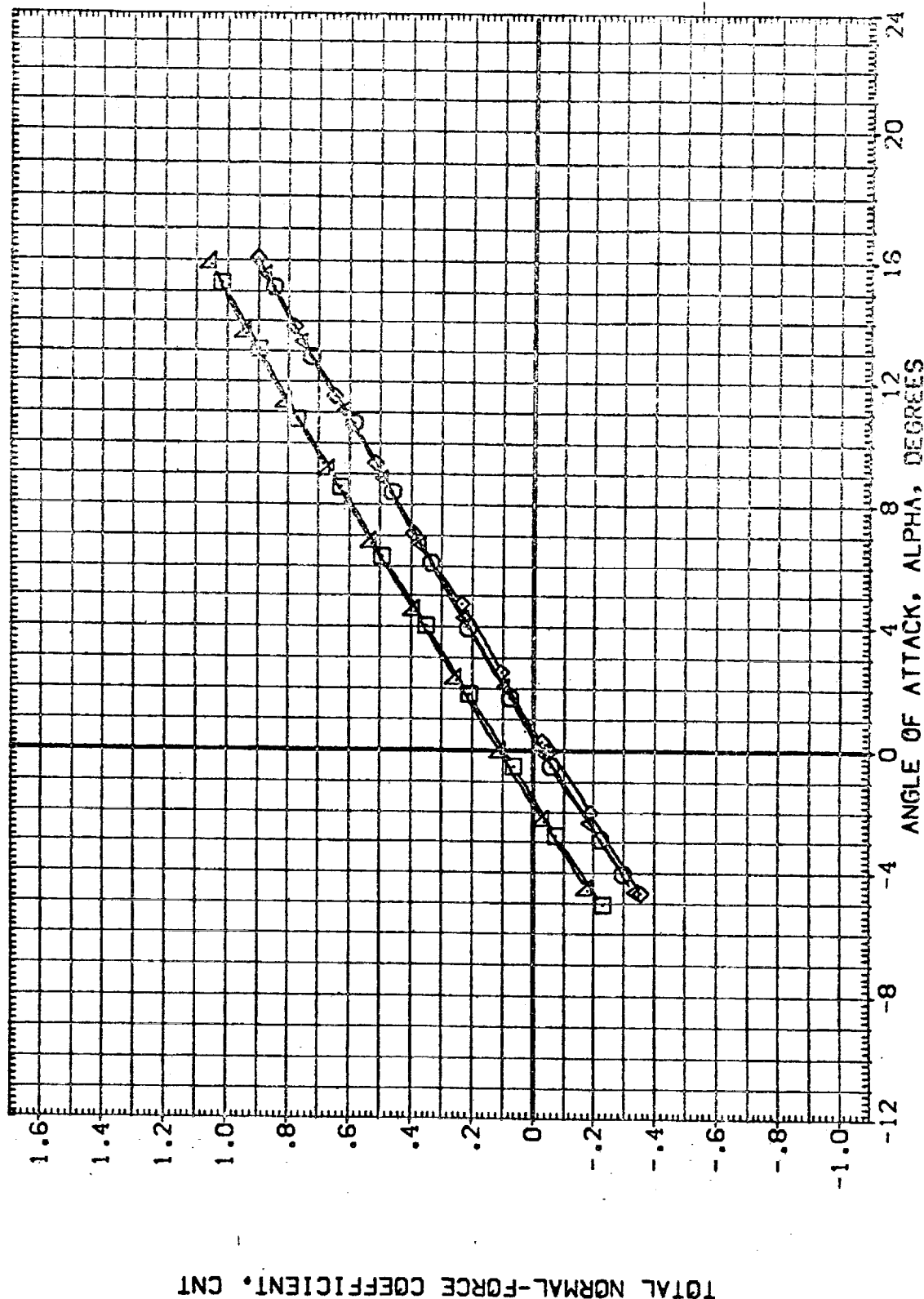


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
YMRP	12.6255	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT
[GER013]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT

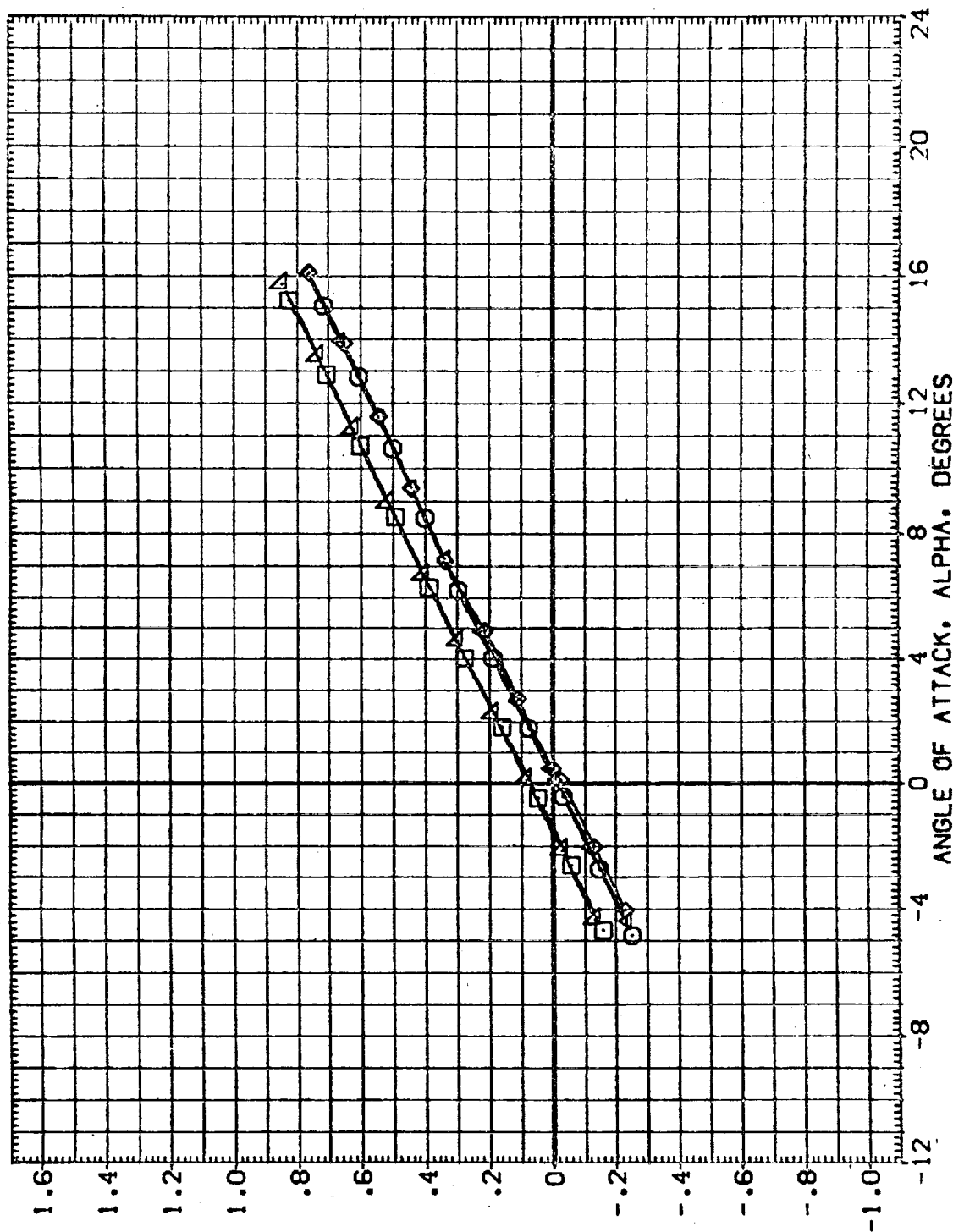


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER013]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

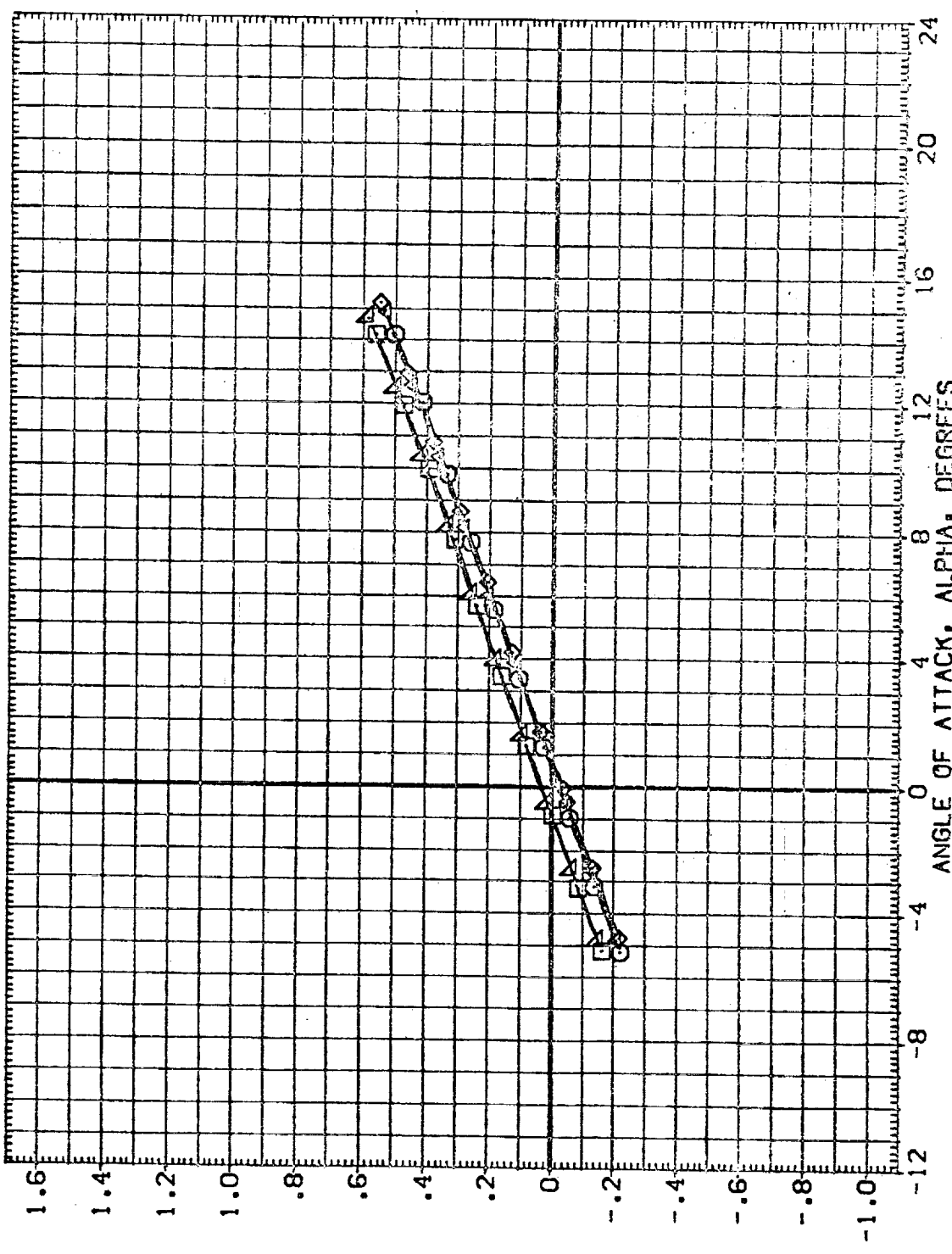


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    SDF LAP    REFERENCE INFORMATION

(GER001)    ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT+DUM SING    .000    .000    -11.700    SREF    .6053    SQ.FT.

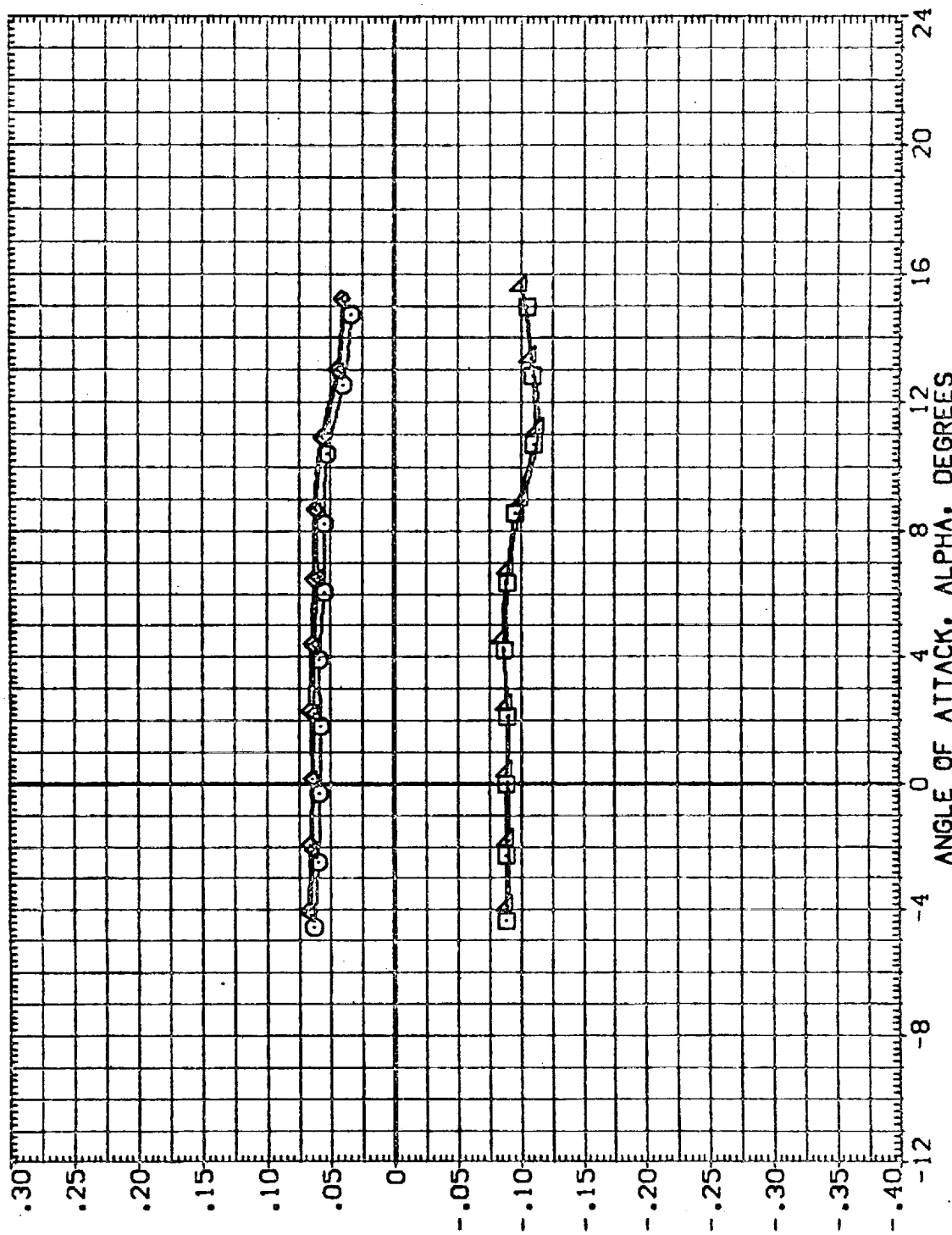
(GER003)    ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT+DUM SING    .000    15.000    -11.700    LREF    .5935    FT.

(GER009)    ARC 66-709 0A59 0A11A-(N24 RS VB1)+STRUT    .000    .000    -11.700    BREF    1.1710    FT.

(GER012)    ARC 66-709 0A59 0A11A-(RS VB1)+STRUT    .000    .000    -11.700    YMRP    12.6255    IN.

(GER013)    ARC 66-709 0A59 0A11A-(RS VB1)+STRUT    .000    15.000    -11.700    ZMRP    -.3750    IN.

SCALE    .0150

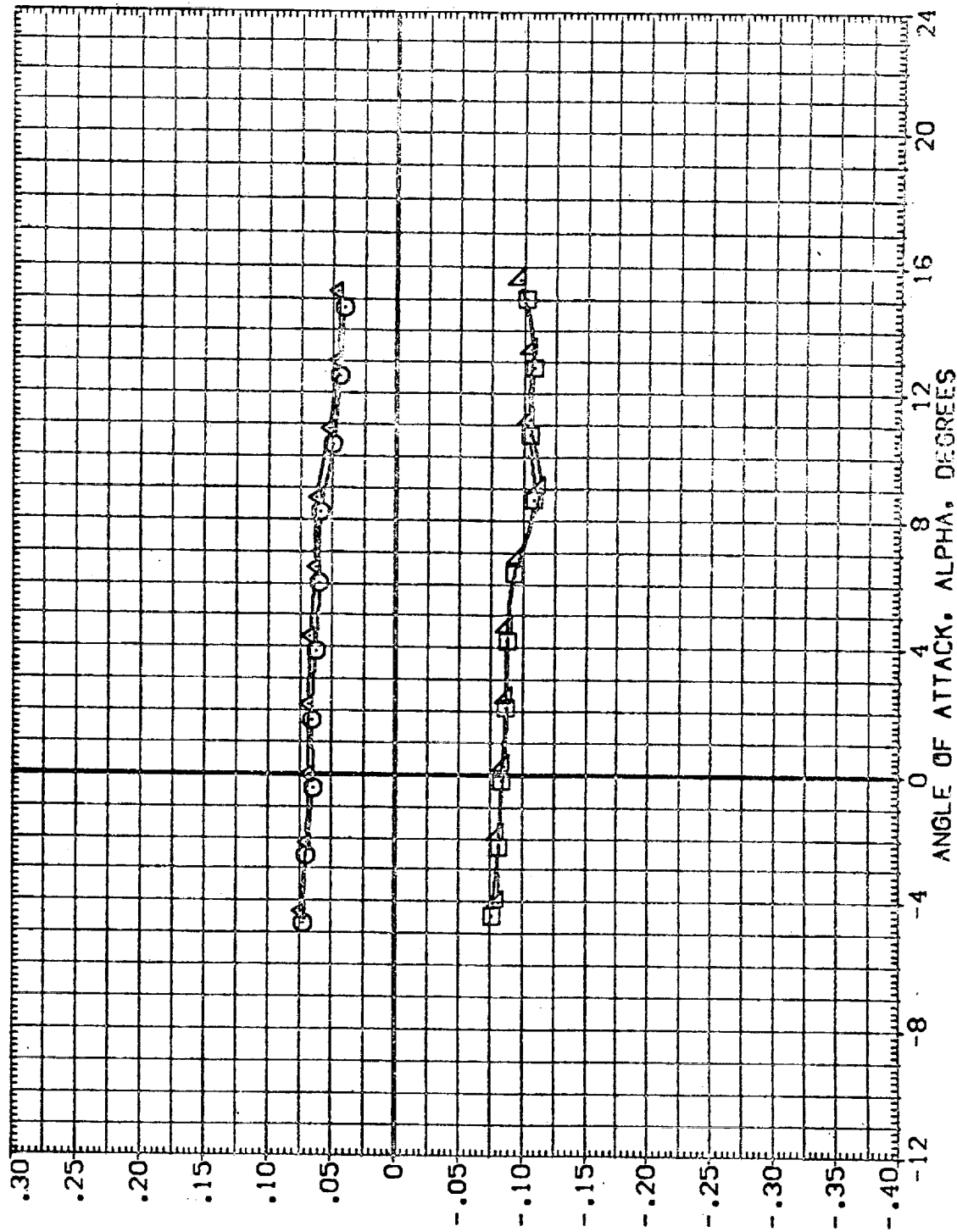


FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CM TWD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

ALMACH = 60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF 5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	DREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150








FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFWD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	
GER001)	
GER003)	
GER009)	
GER012)	
GER013)	

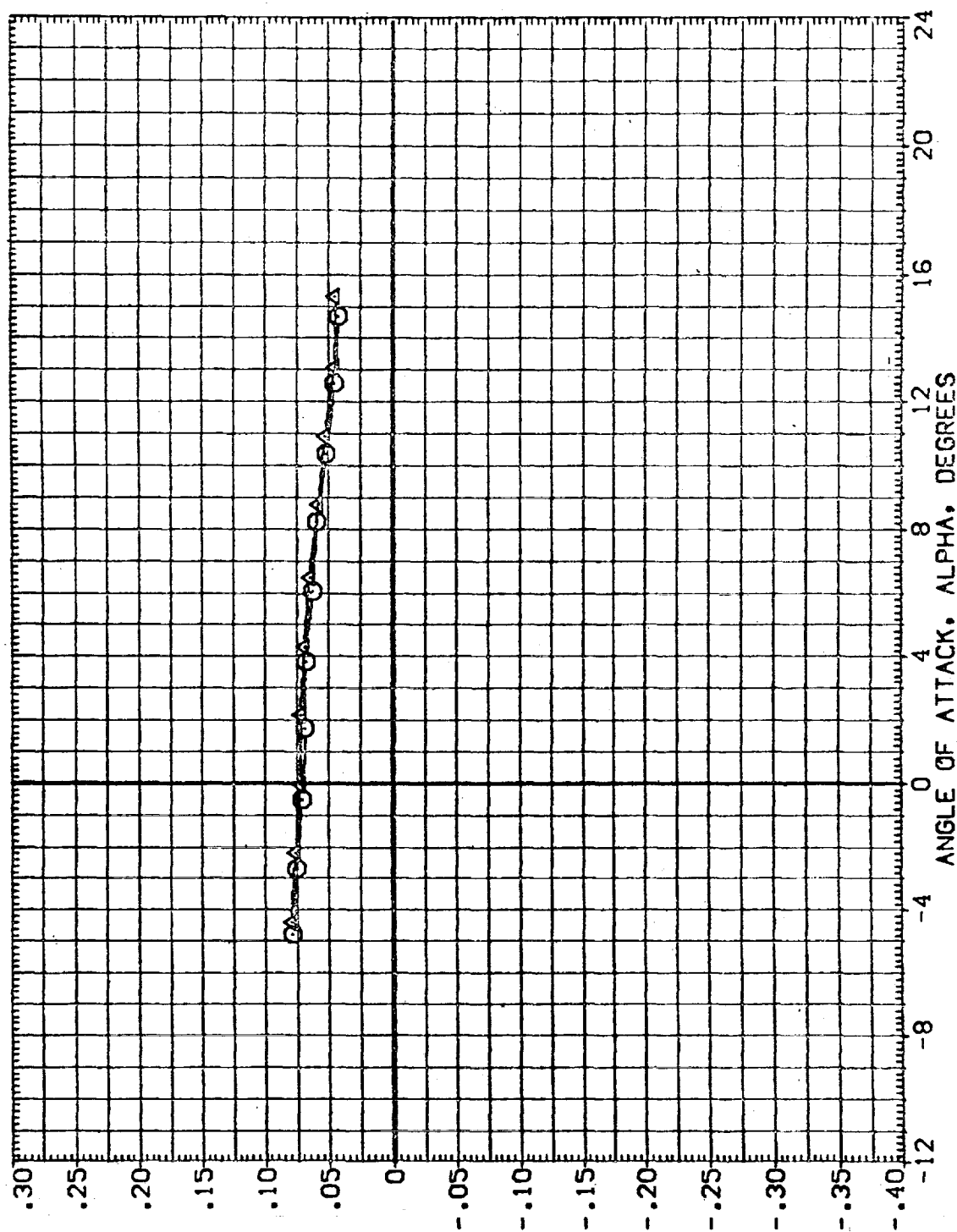


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

REF    SQ.FT.  
LREF    FT.  
BREF    IN.  
XMRP    IN.  
YMRP    IN.  
ZMRP    IN.  
SCALE

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING  
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING  
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT  
ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(GER001)  
(GER003)  
(GER009)  
(GER012)  
(GER013)

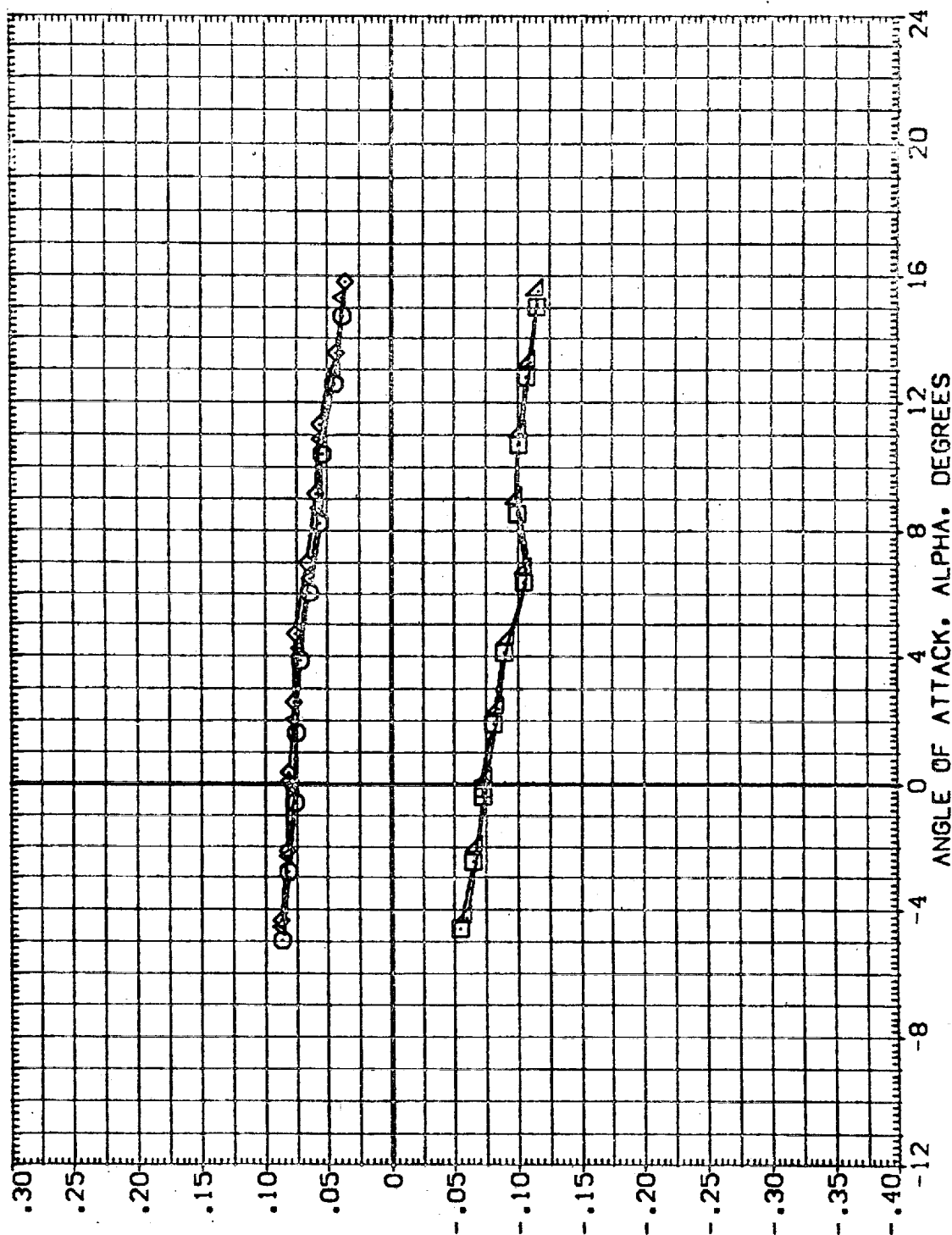


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CD)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	OVERLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 0A11A-(N24 NS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	GREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMPP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

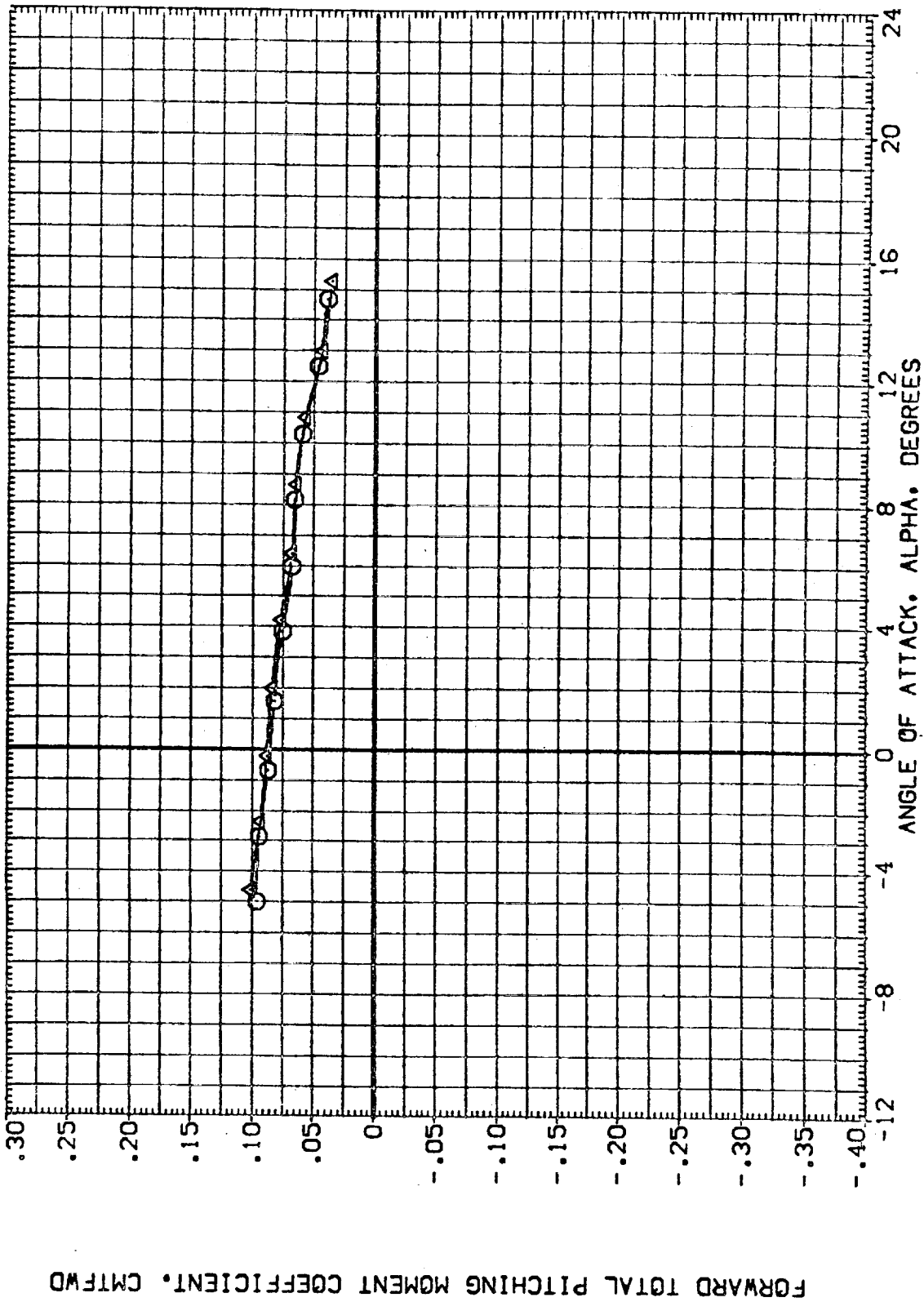


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

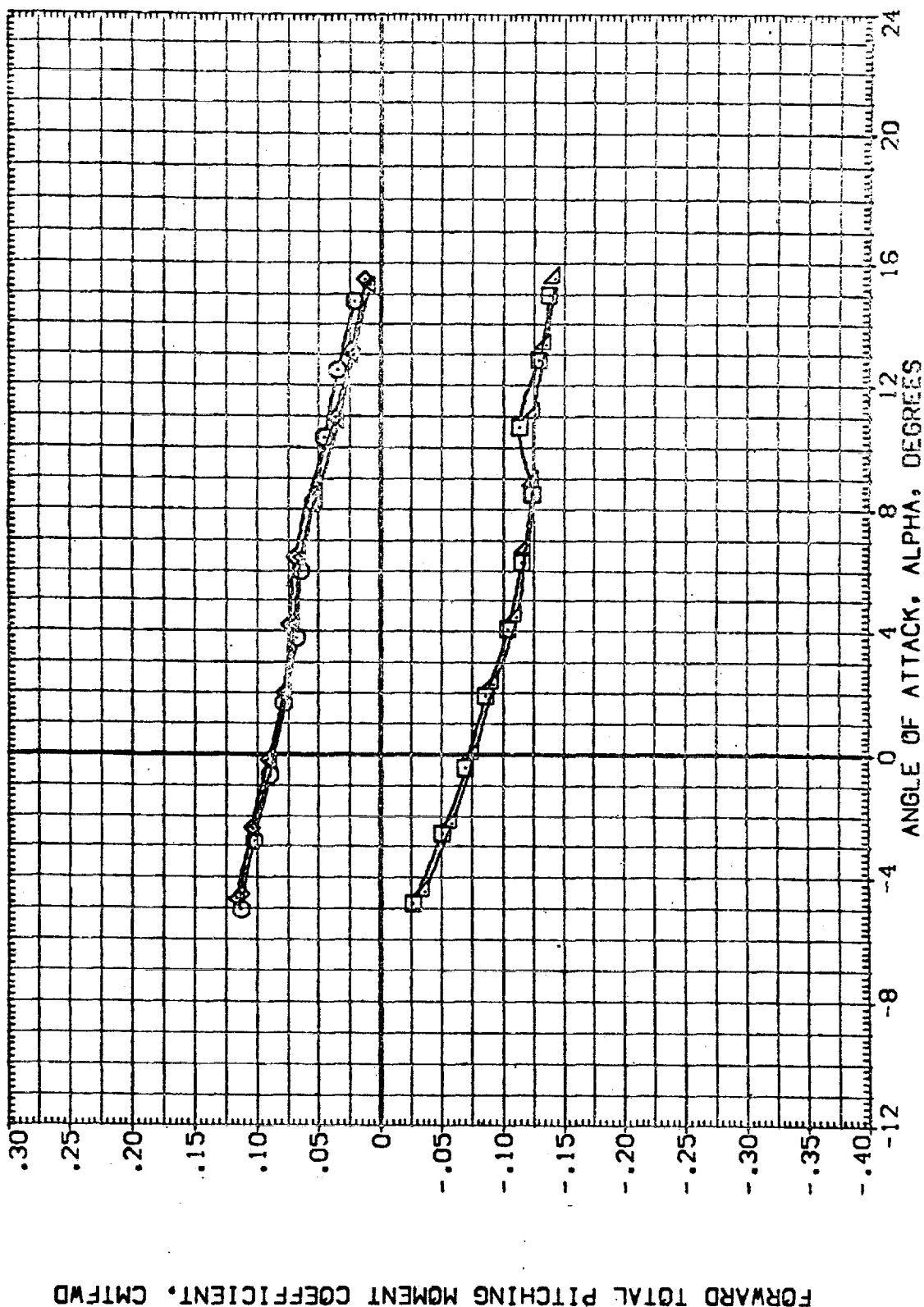


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(SER001) ARC 66-709 DASS DAI1A-(N24 RS)V8)+STRUT+DUM STNG

(SER003) DATA NOT AVAILABLE

(SER009) DATA NOT AVAILABLE

(SER012) ARC 66-709 DASS DAI1A-(RS V8)+STRUT

(SER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

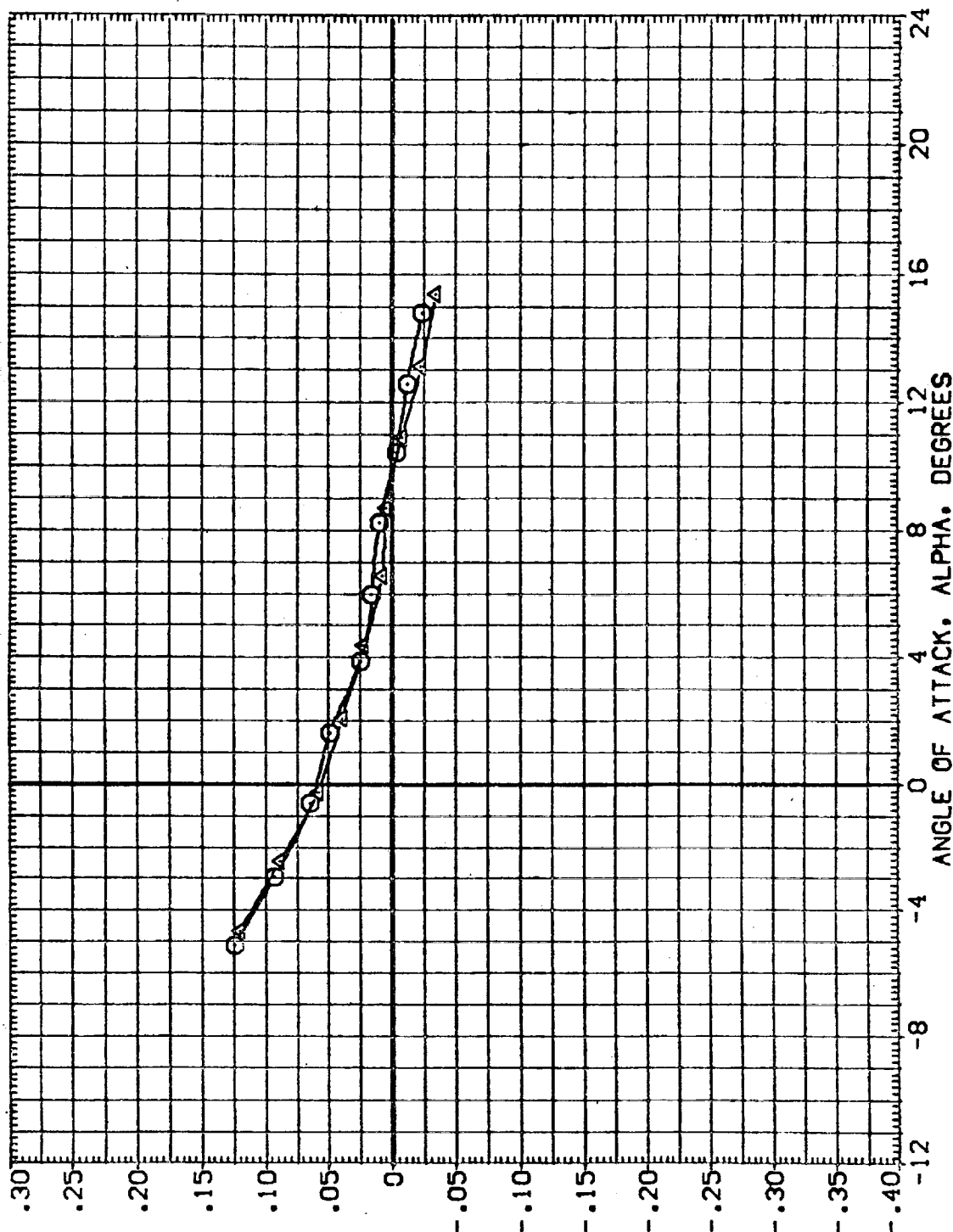
BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFW

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
[GER013]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

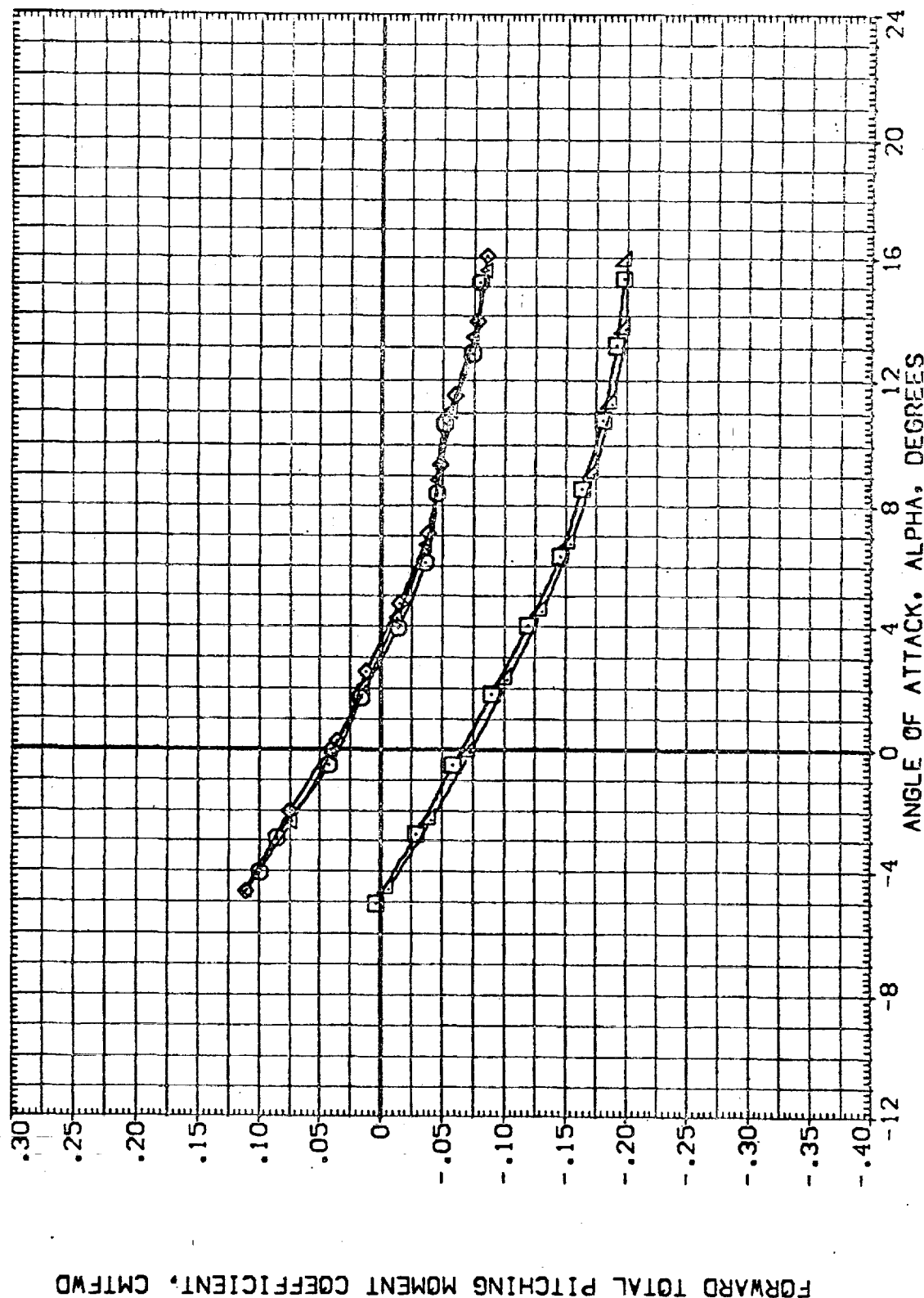
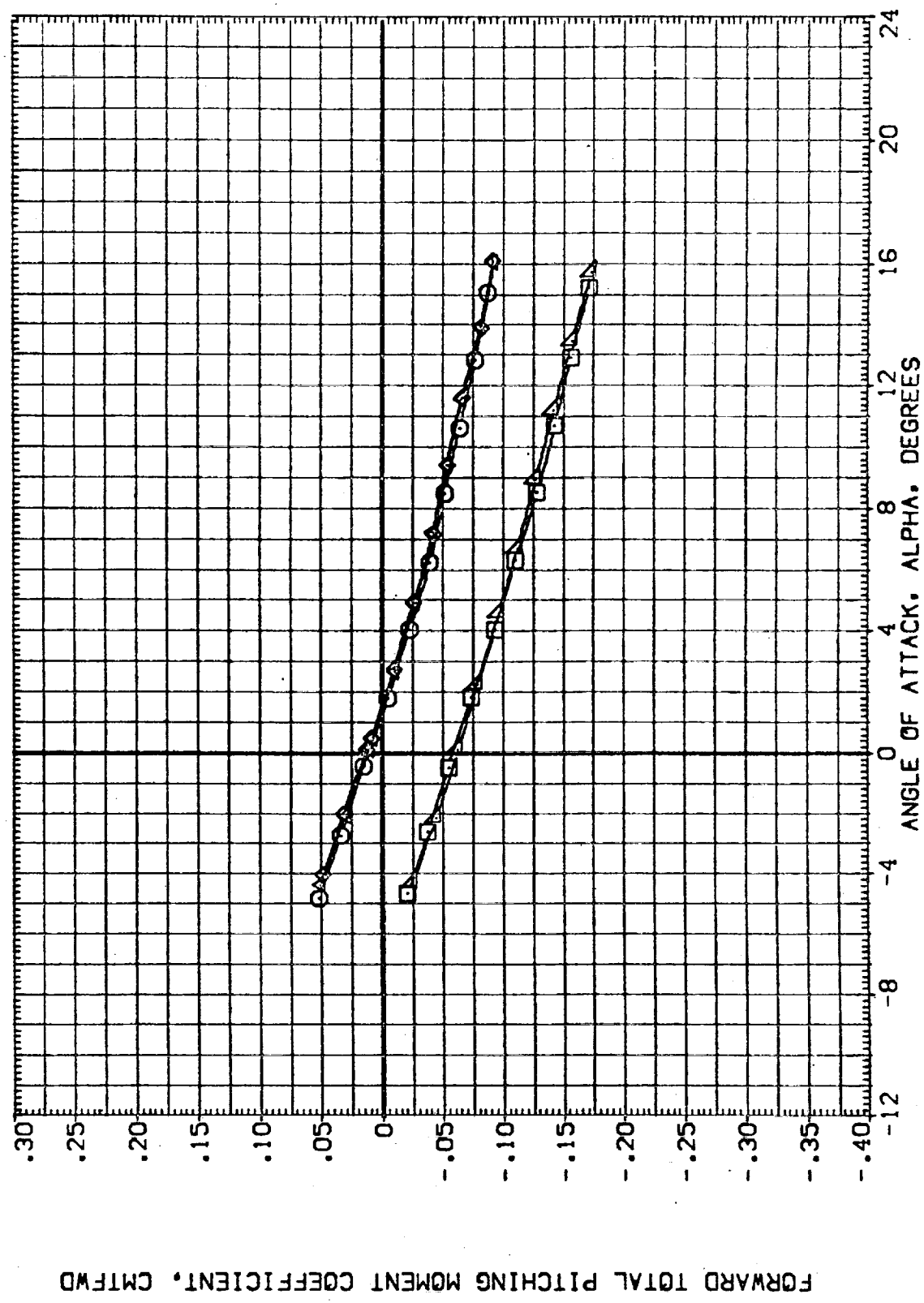


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STING	.000	.000	-11.700	SREF 6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	YMRP -.3750 IN.
					ZMRP .0150
					SCALE



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFWD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

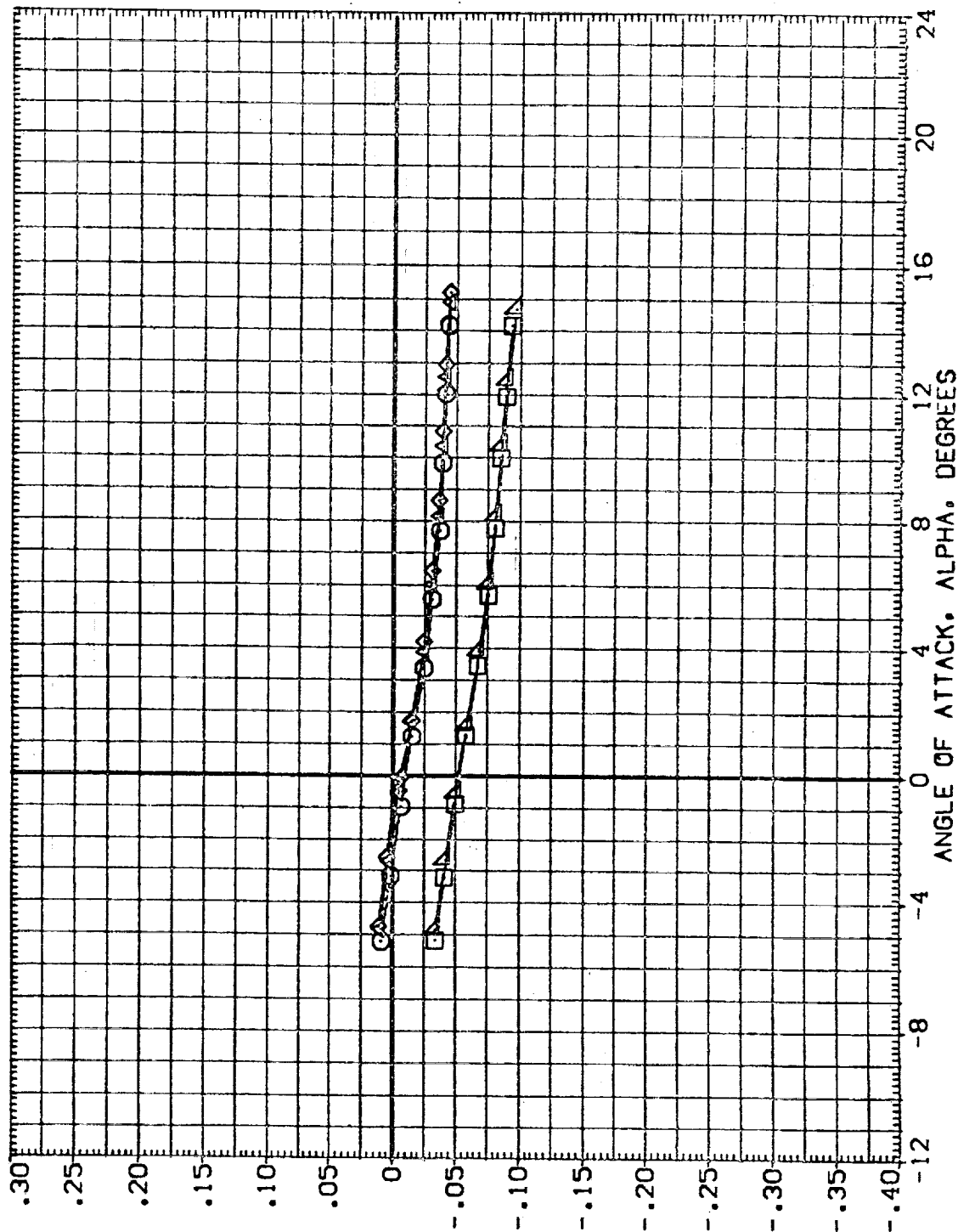


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 DAI1A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 DAI1A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

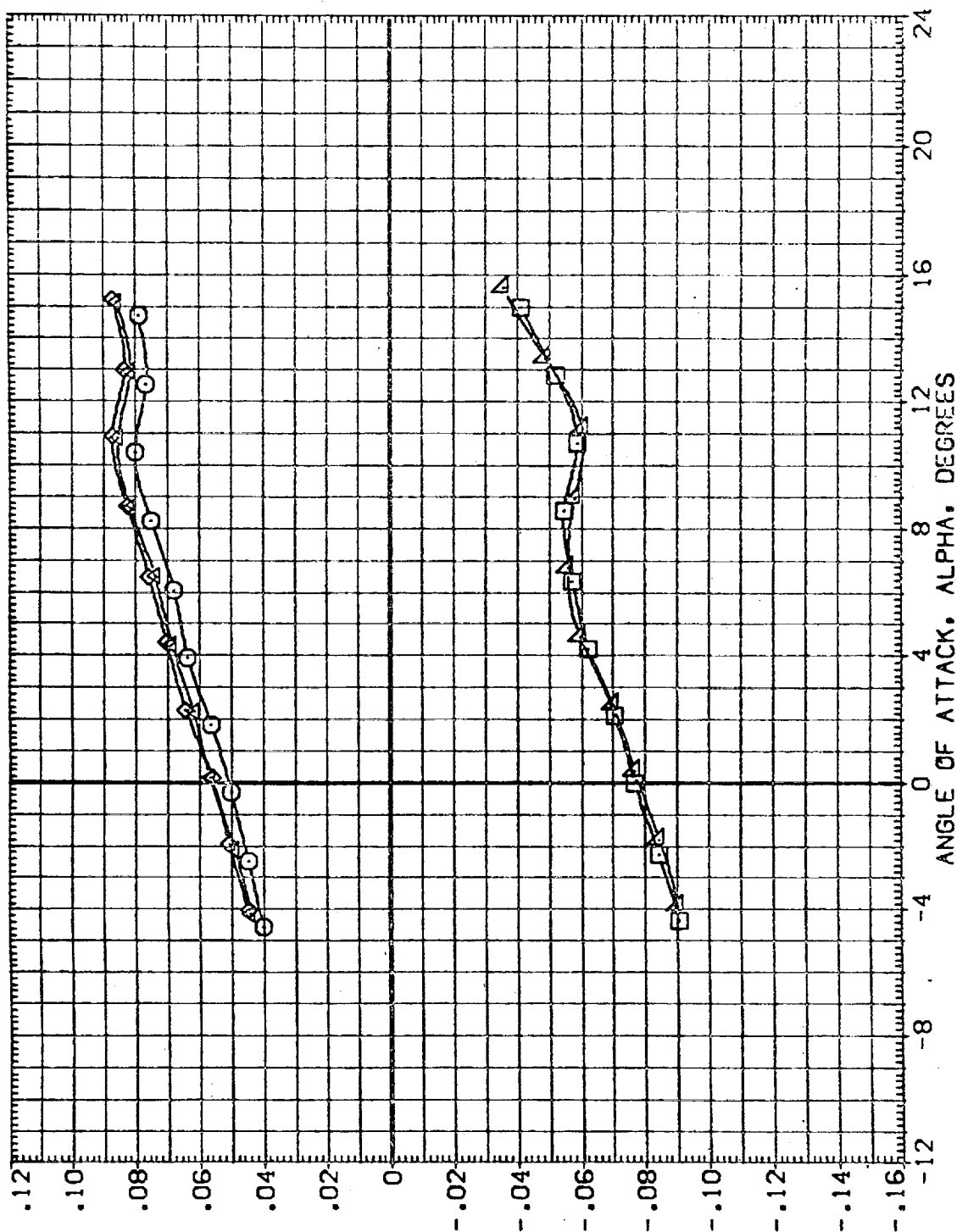


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CAJMACB = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

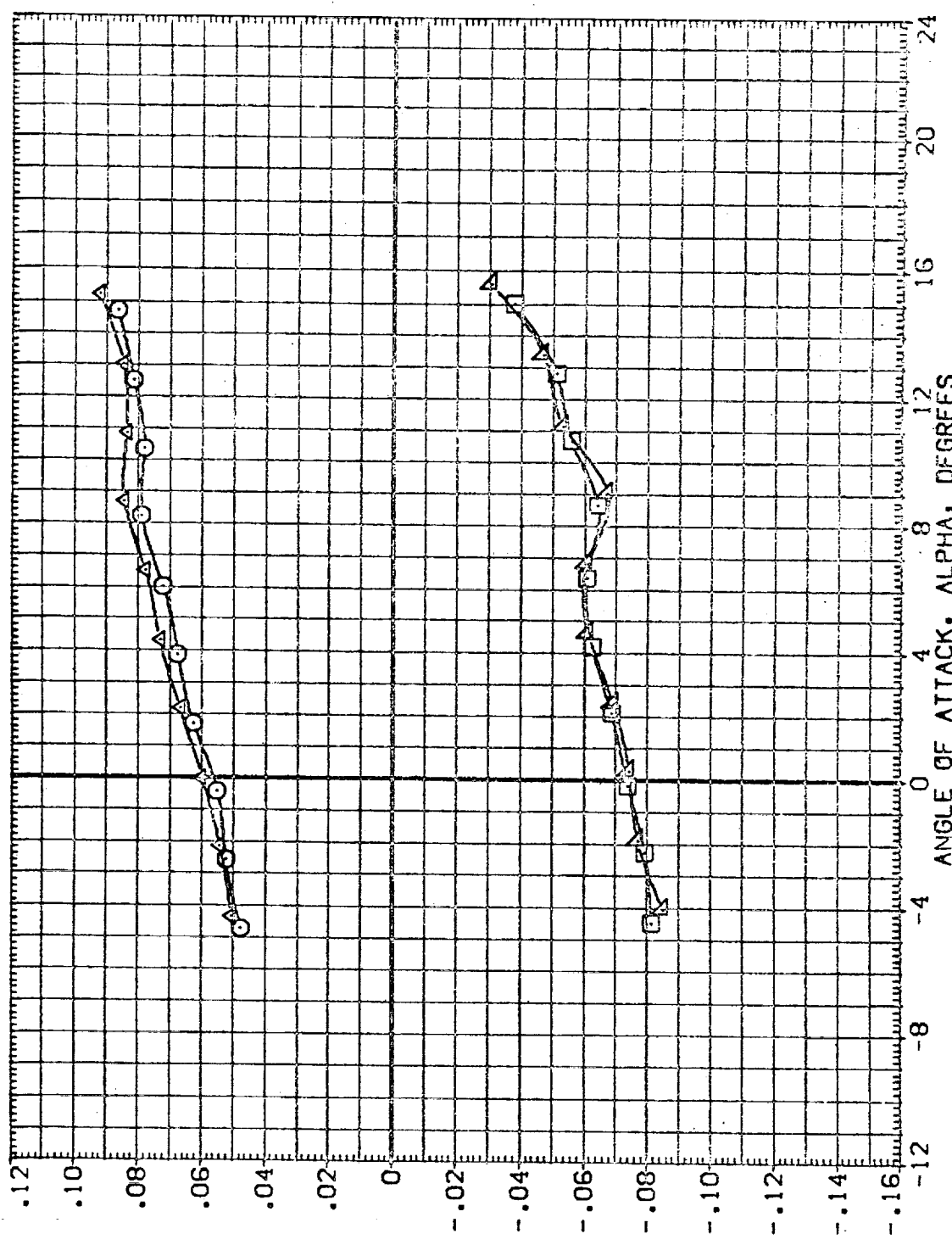


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
YMRP	12.6255	IN.
ZMRP	-.0000	IN.
SCALE	-.3750	IN.
	.0150	

BETA ELEVON BOFLAP

BETA	.000	-11.700
ELEVON	.000	-11.700
BOFLAP	.000	-11.700
	.000	-11.700
	.000	-11.700
	.000	-11.700

DATA SET SYMBOL: CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DLM STNG
(GER003)	DATA NOT AVAILABLE
(GER009)	DATA NOT AVAILABLE
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT
(GER013)	DATA NOT AVAILABLE

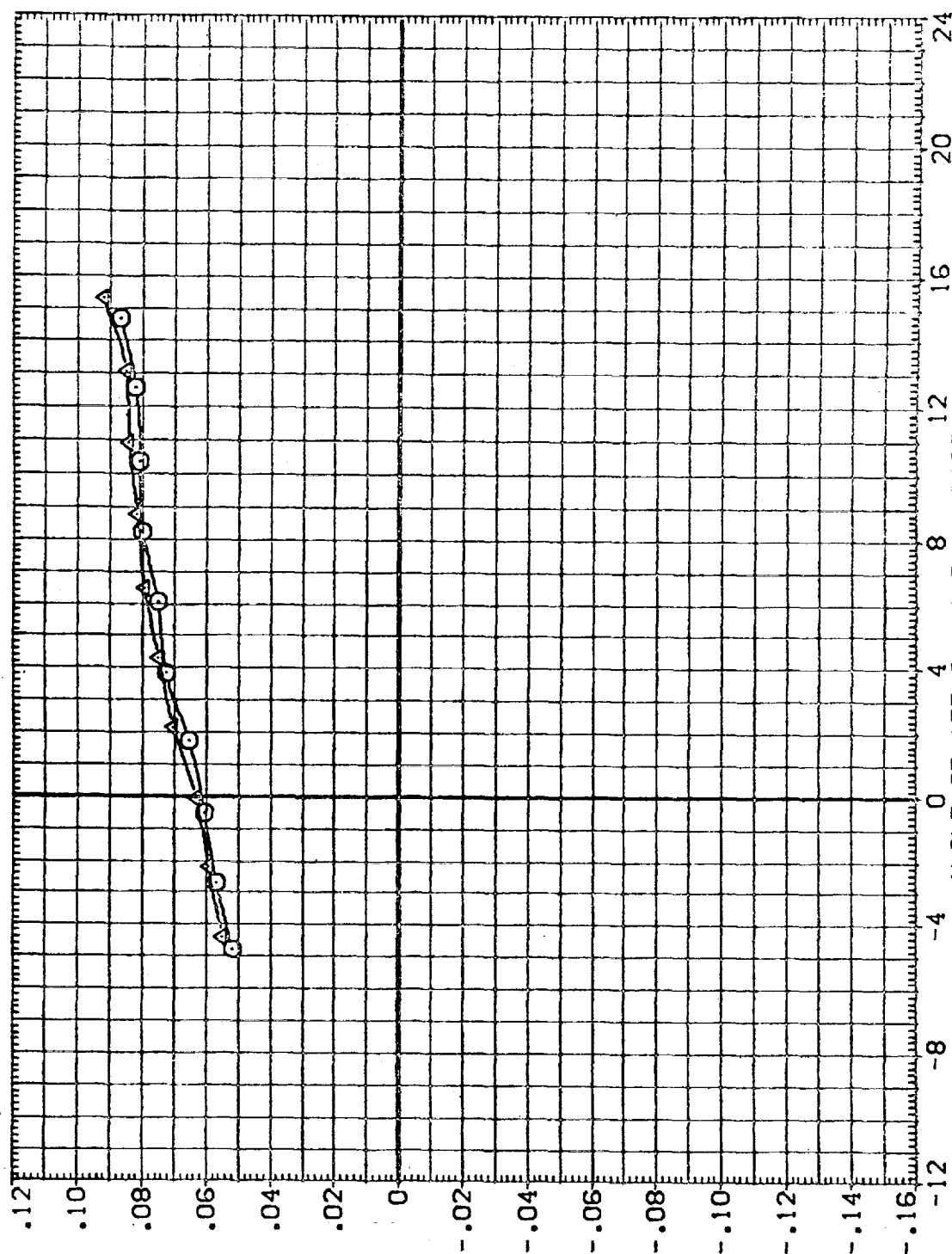


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	.6053	.5935	1.1710	12.6255	-.3750	.0150	
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	.6053	.5935	1.1710	12.6255	-.3750	.0150	
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	.6053	.5935	1.1710	12.6255	-.3750	.0150	
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	.6053	.5935	1.1710	12.6255	-.3750	.0150	
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	.6053	.5935	1.1710	12.6255	-.3750	.0150	

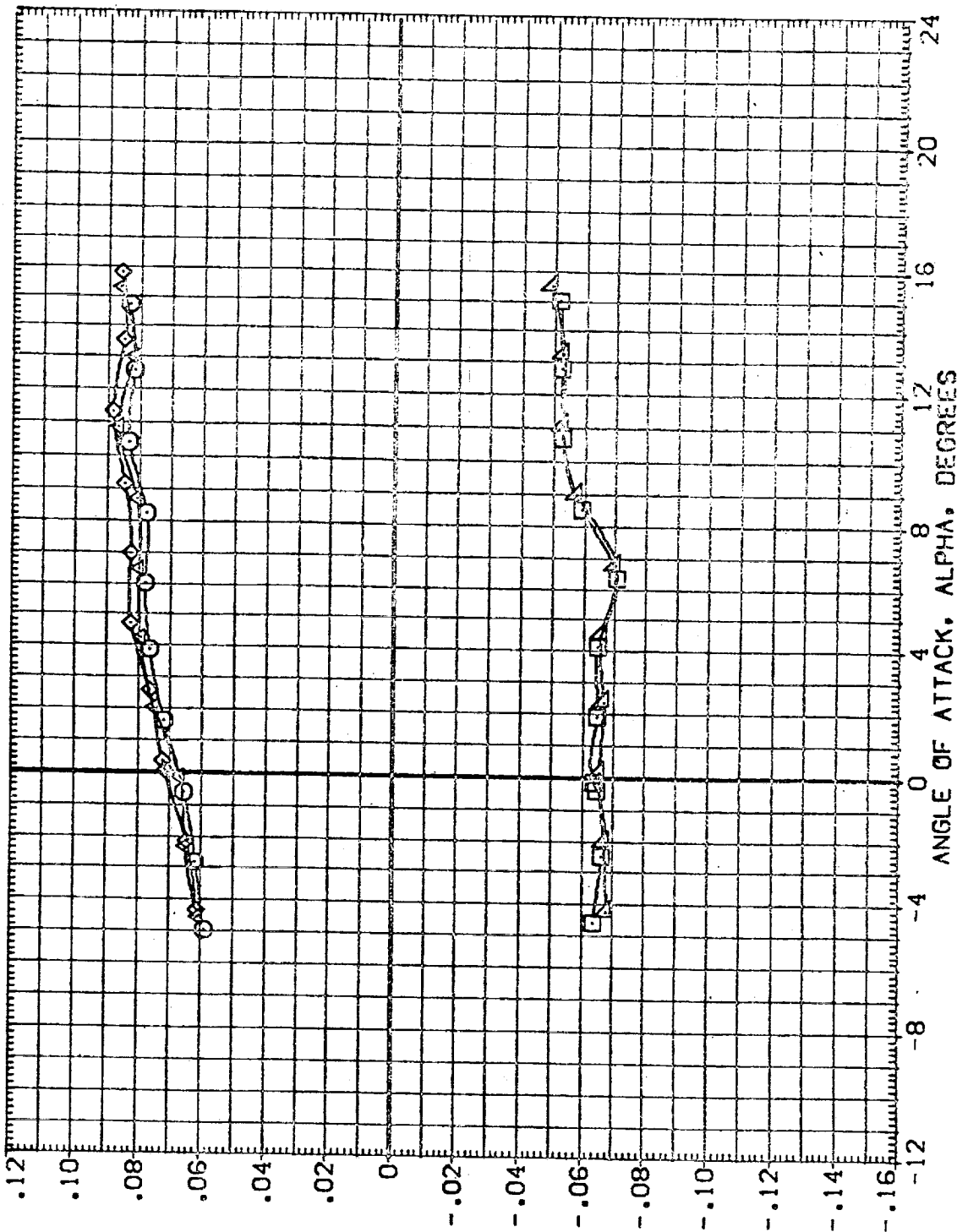


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

COMACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 QAS9 Q111A-(N24 R5 V8)-STRUT+DUM STNG

(GER003) DATA NOT AVAILABLE

(GER009) DATA NOT AVAILABLE

(GER012) ARC 66-709 QAS9 Q111A-(R5 V8)-STRUT

(GER013) DATA NOT AVAILABLE

BETA ELEVON 80% LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

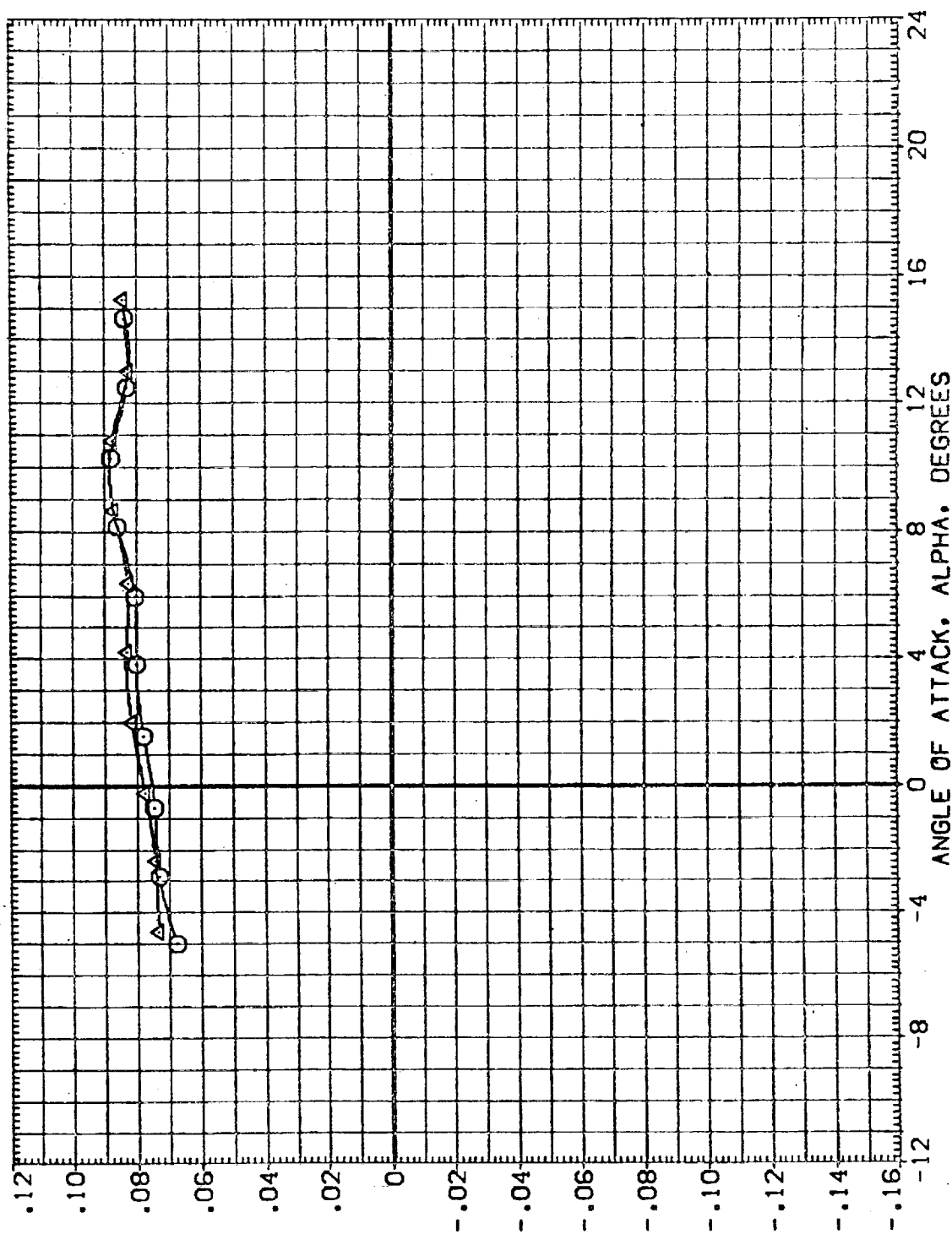


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

# DATA SET SYMBOL

(GER001)  
(GER003)  
(GER009)  
(GER012)  
(GER013)

# CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

# BETA

.000  
.000  
.000  
.000  
.000  
.000  
.000  
.000

# ELEVON

.000  
15.000  
.000  
.000  
.000  
15.000  
15.000  
15.000

# BOFLAP

-11.700  
-11.700  
-11.700  
-11.700  
-11.700  
-11.700  
-11.700  
-11.700

# REFERENCE INFORMATION

SREF .6053 50.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

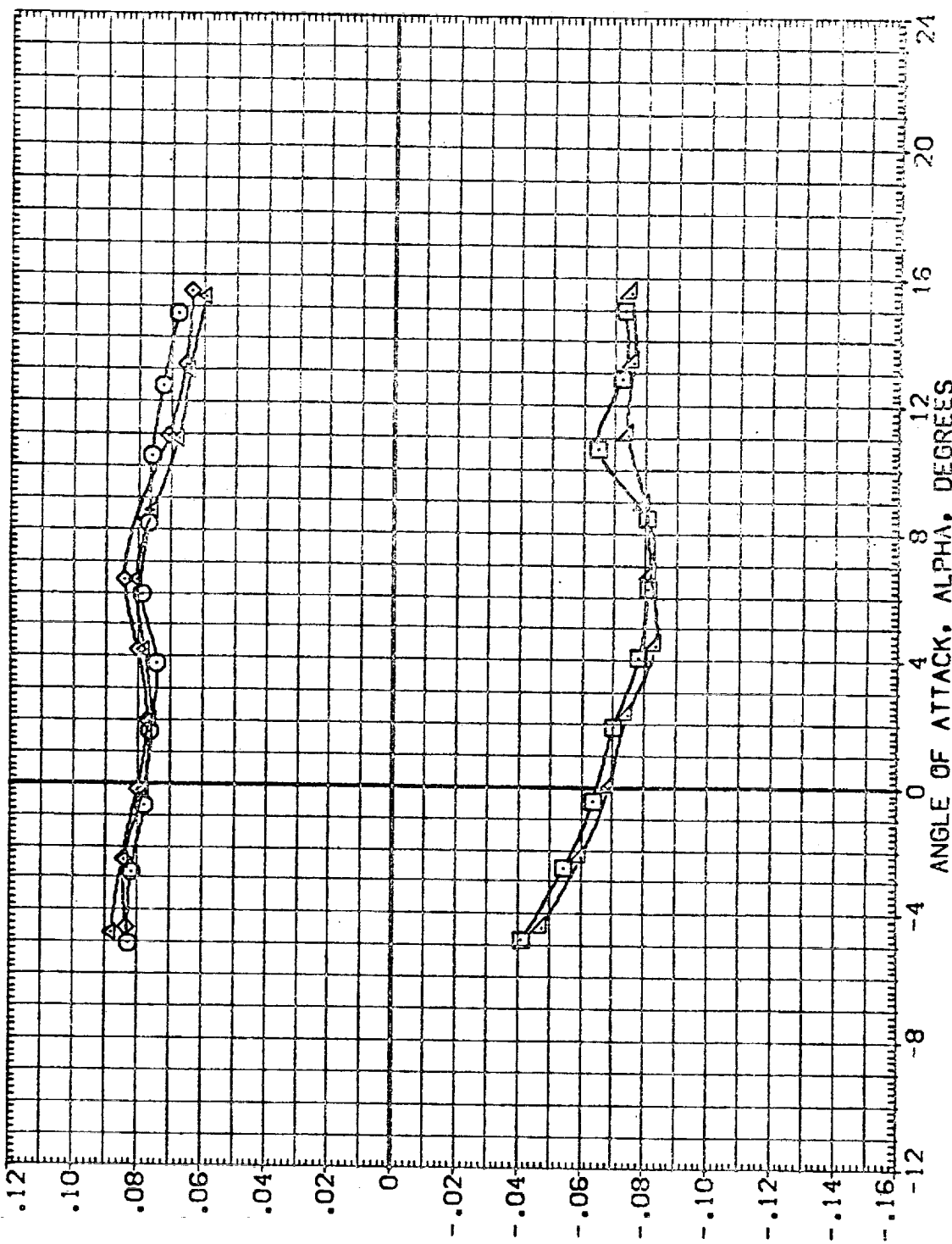


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION

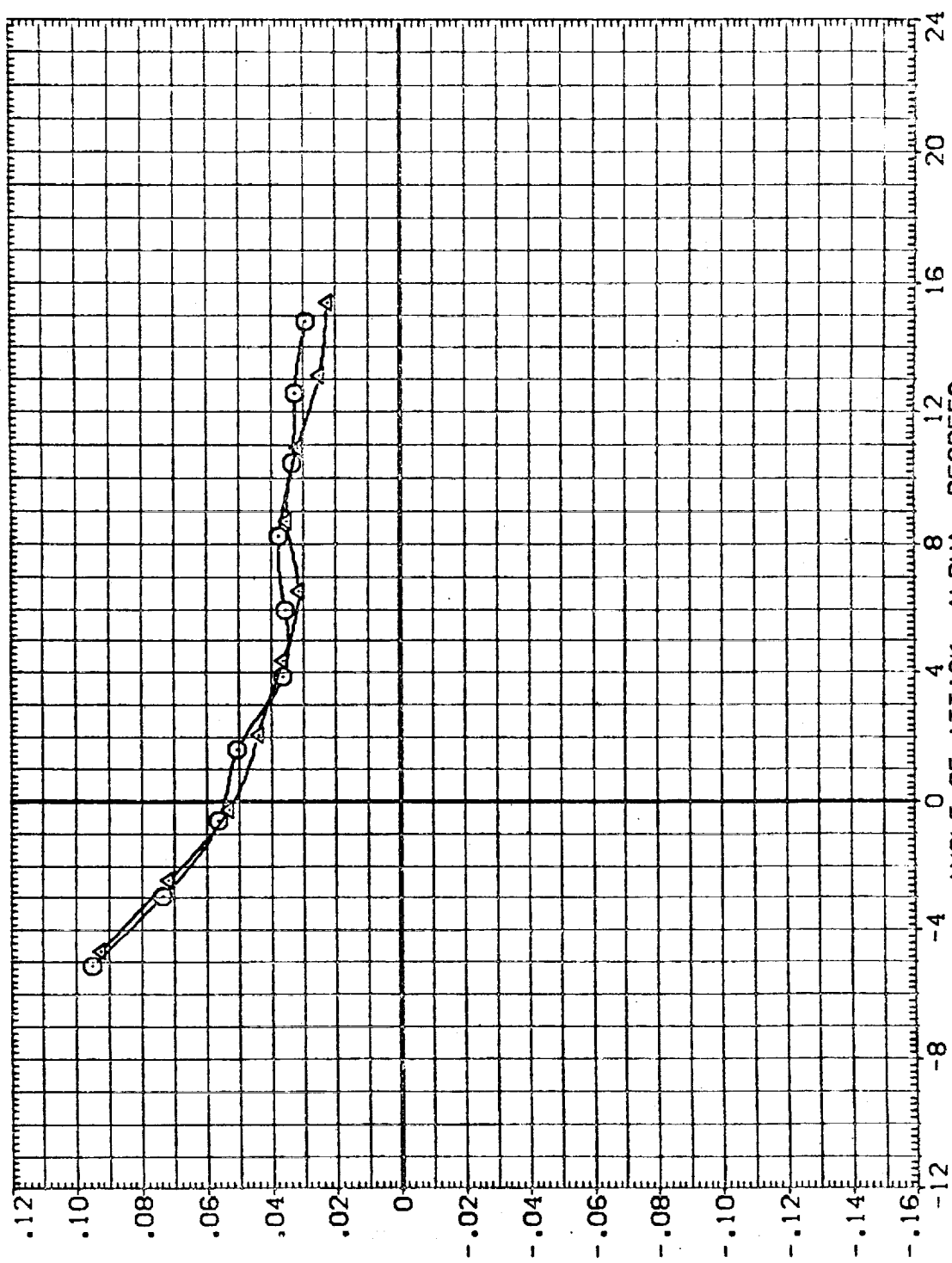
SREF	.8053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON BOFLAP

ELEVON	.000	-11.700
BETA	.000	-11.700
BETA	.000	-11.700
BETA	.000	-11.700
BETA	.000	-11.700
BETA	.000	-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709 QAS9 QAI1A-(N24 R5 V8)+STRUT+OUM STNG
(GER003)	DATA NOT AVAILABLE
(GER009)	DATA NOT AVAILABLE
(GER012)	ARC 66-709 QAS9 QAI1A-(R5 V8)+STRUT
(GER013)	DATA NOT AVAILABLE



AFT TOTAL PITCHING MOMENT COEFFICIENT, CMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

AFT TOTAL PITCHING MOMENT COEFFICIENT, CMIAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRF 12.6255 IN.
(GER013)	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

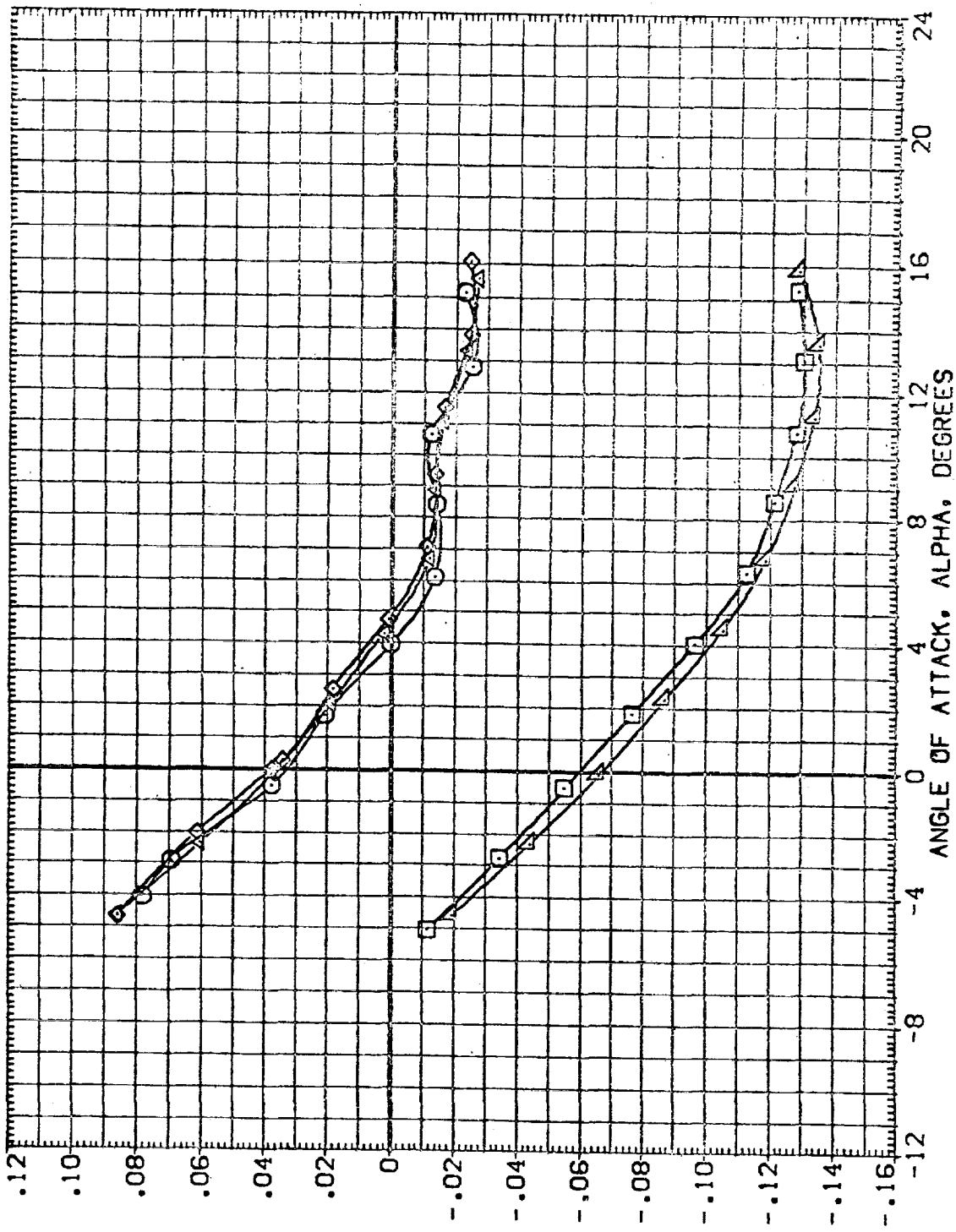


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

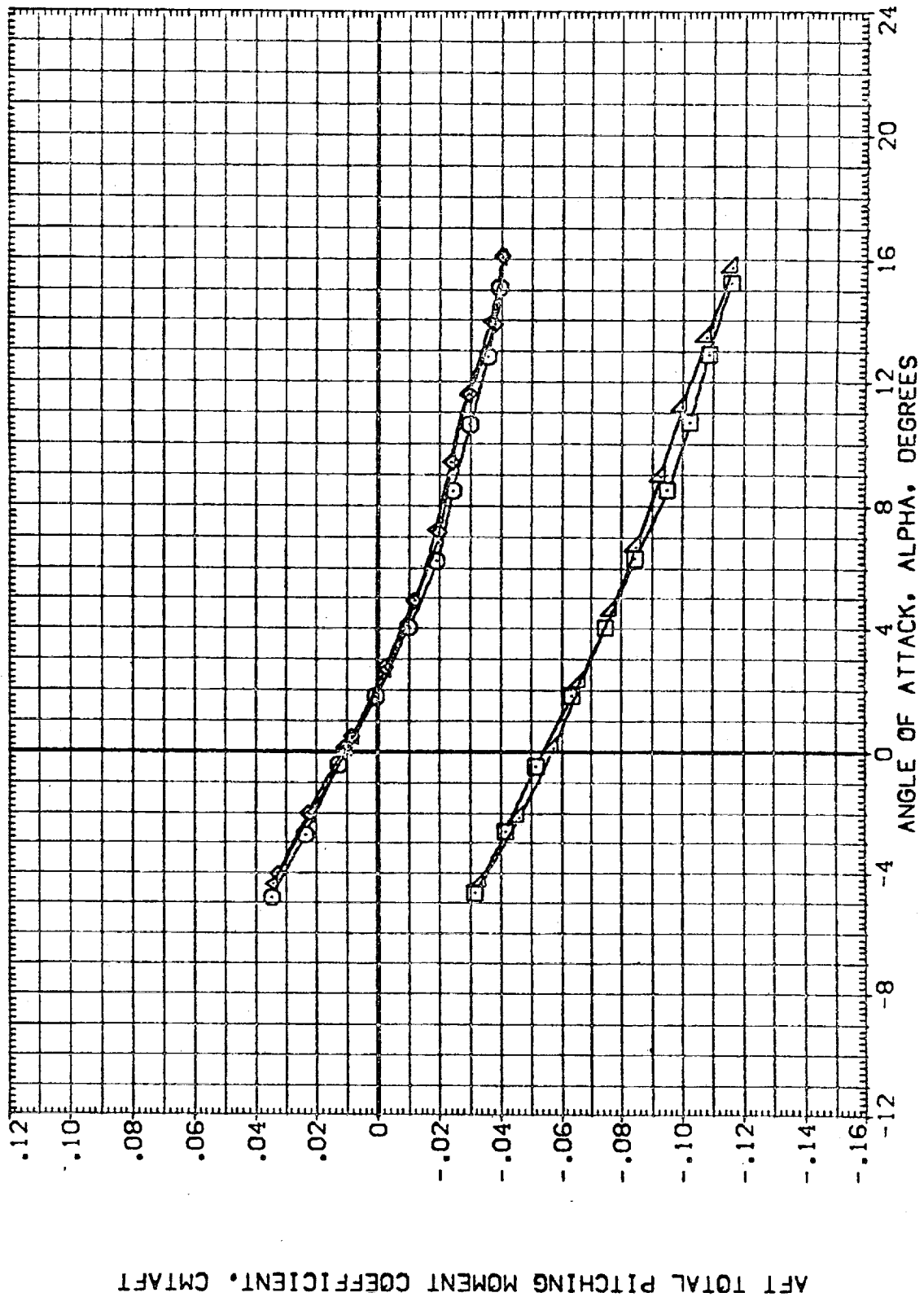


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

AFT TOTAL PITCHING MOMENT COEFFICIENT, CM1AFT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (GER001) ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT+DUM STNG  
 (GER003) ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT+DUM STNG  
 (GER008) ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT  
 (GER012) ARC 66-709 0A59 0A11A-(RS V81)\*STRUT  
 (GER013) ARC 66-709 0A59 0A11A-(RS V81)\*STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 15.000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 15.000 .000 -11.700

REFERENCE INFORMATION  
 SREF .5053 50.5 FT.  
 LREF .5935 59.35 FT.  
 BREF 1.1710 11.710 IN.  
 XMRP 12.6255 12.6255 IN.  
 YMRP .0000 0.0000 IN.  
 ZMRP -.3750 -37.50 IN.  
 SCALE .0150

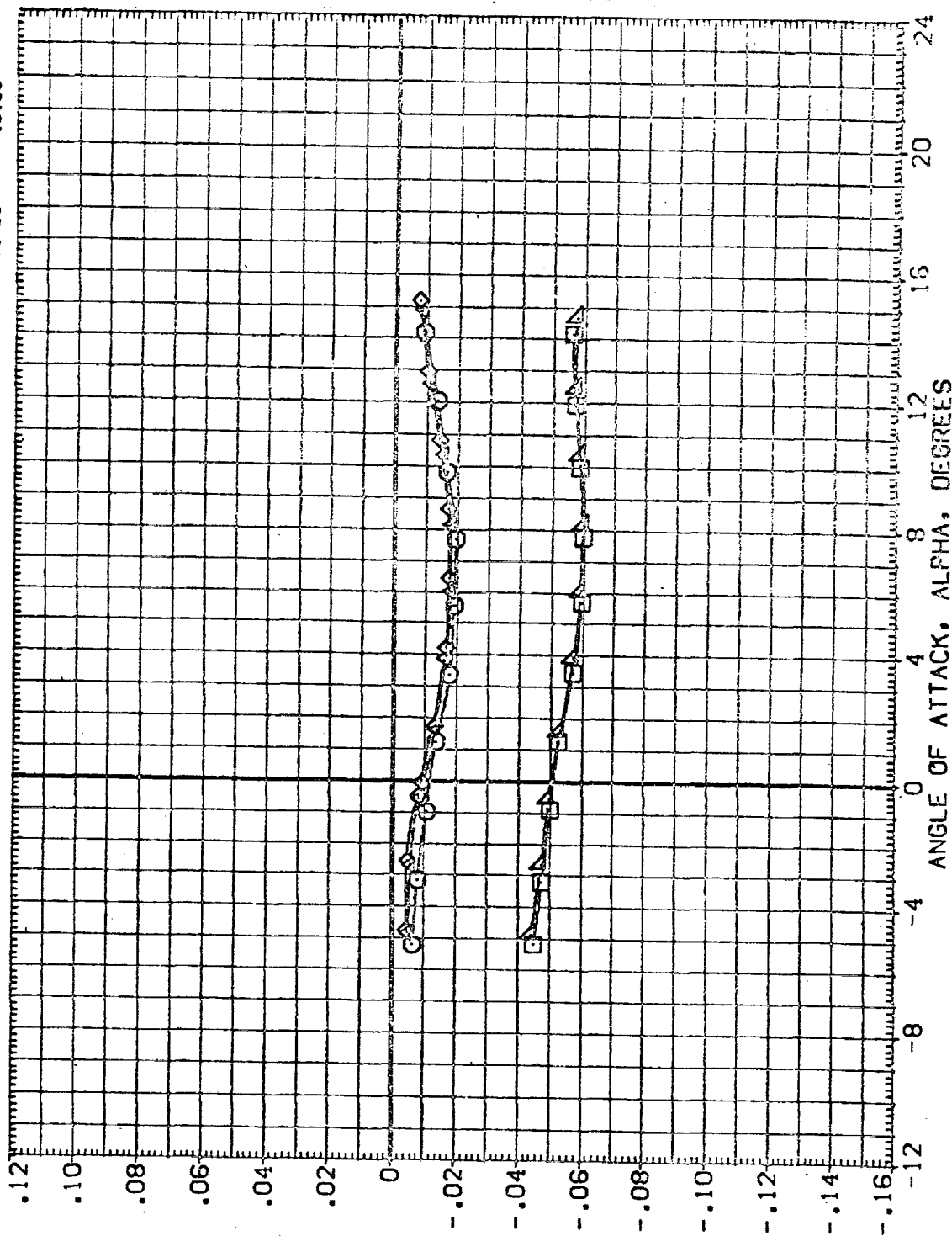


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 QAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 QAS9 DA11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

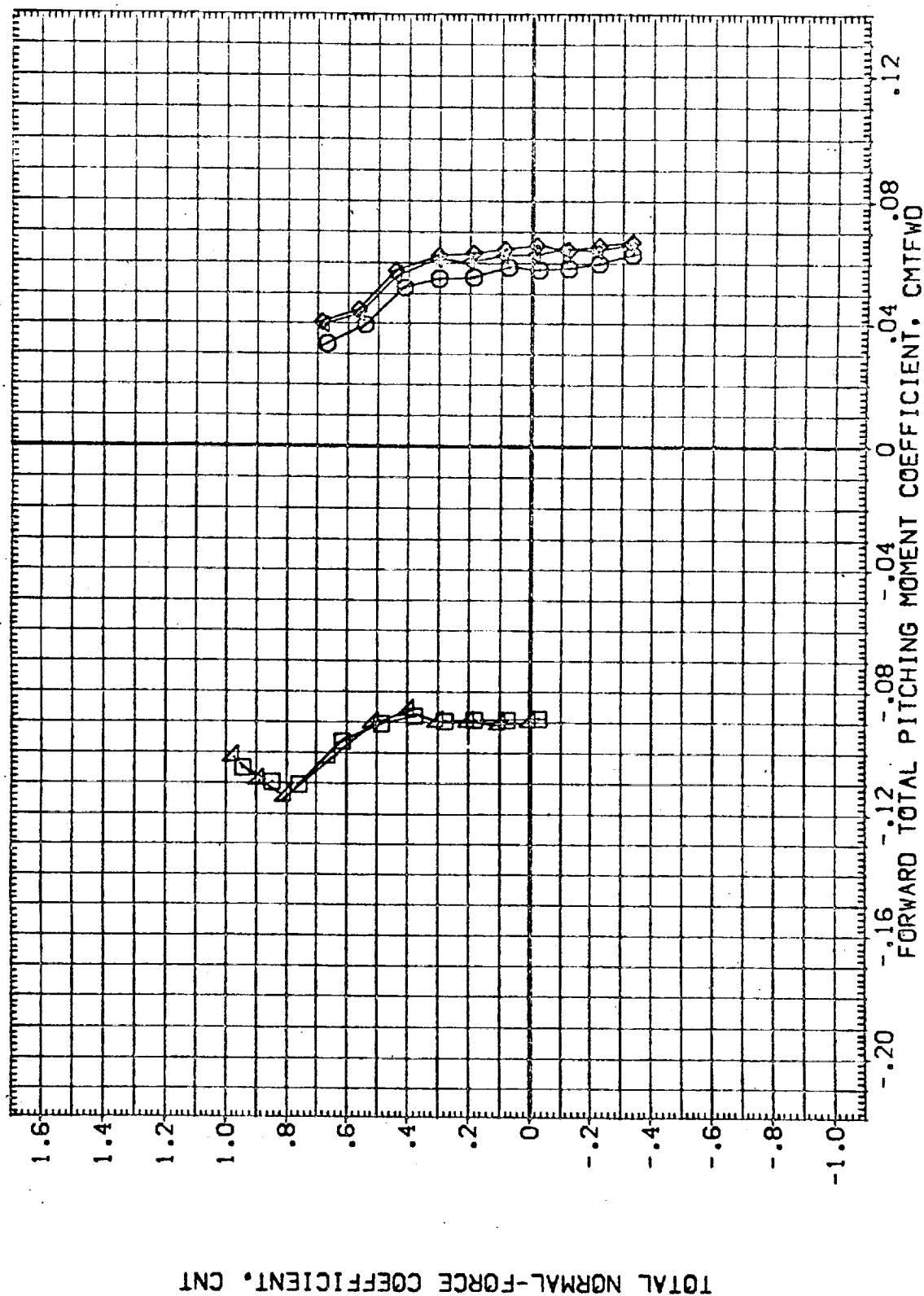


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6253 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

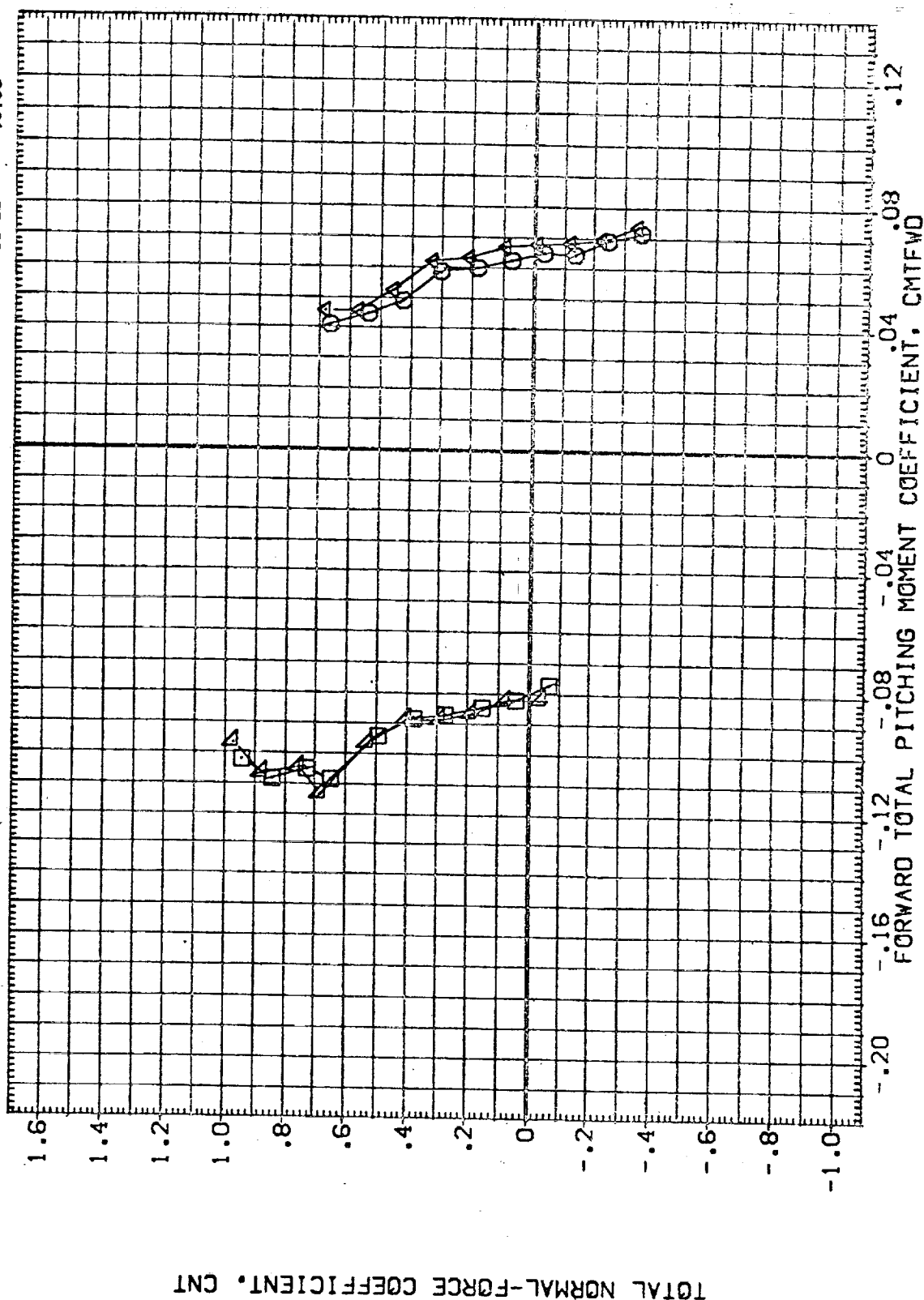


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+QUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BRREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

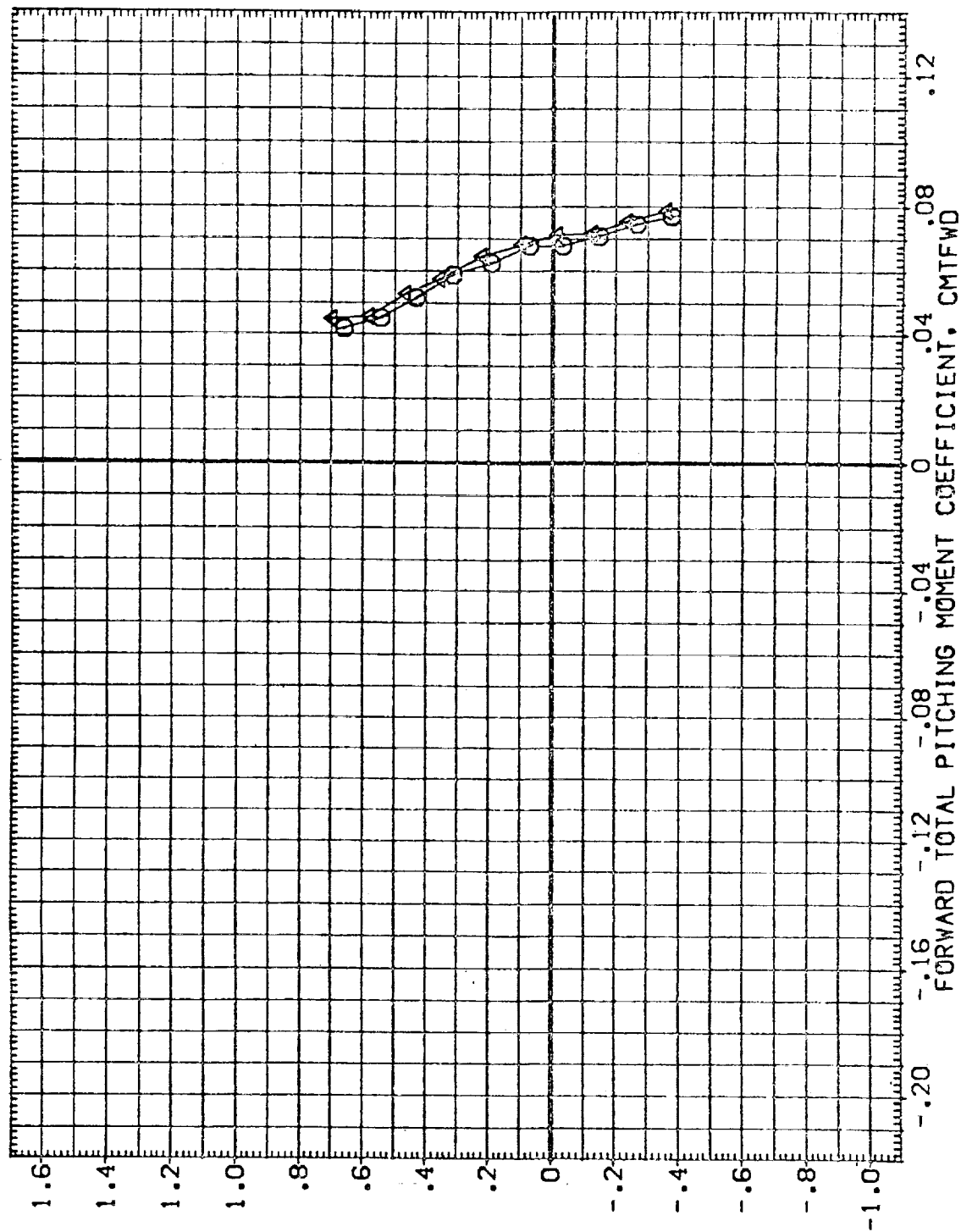


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709	QAS9	QALIA-(N24 RS V8)+STRUT+DUM STNG
(GER003)	ARC 66-709	QAS9	QALIA-(N24 RS V8)+STRUT+DUM STNG
(GER009)	ARC 66-709	QAS9	QALIA-(N24 RS V8)+STRUT
(GER012)	ARC 66-709	QAS9	QALIA-(RS V8)+STRUT
(GER013)	ARC 66-709	QAS9	QALIA-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
YMRP	12.6235	IN.
ZMRP	-3.750	IN.
SCALE	.0150	

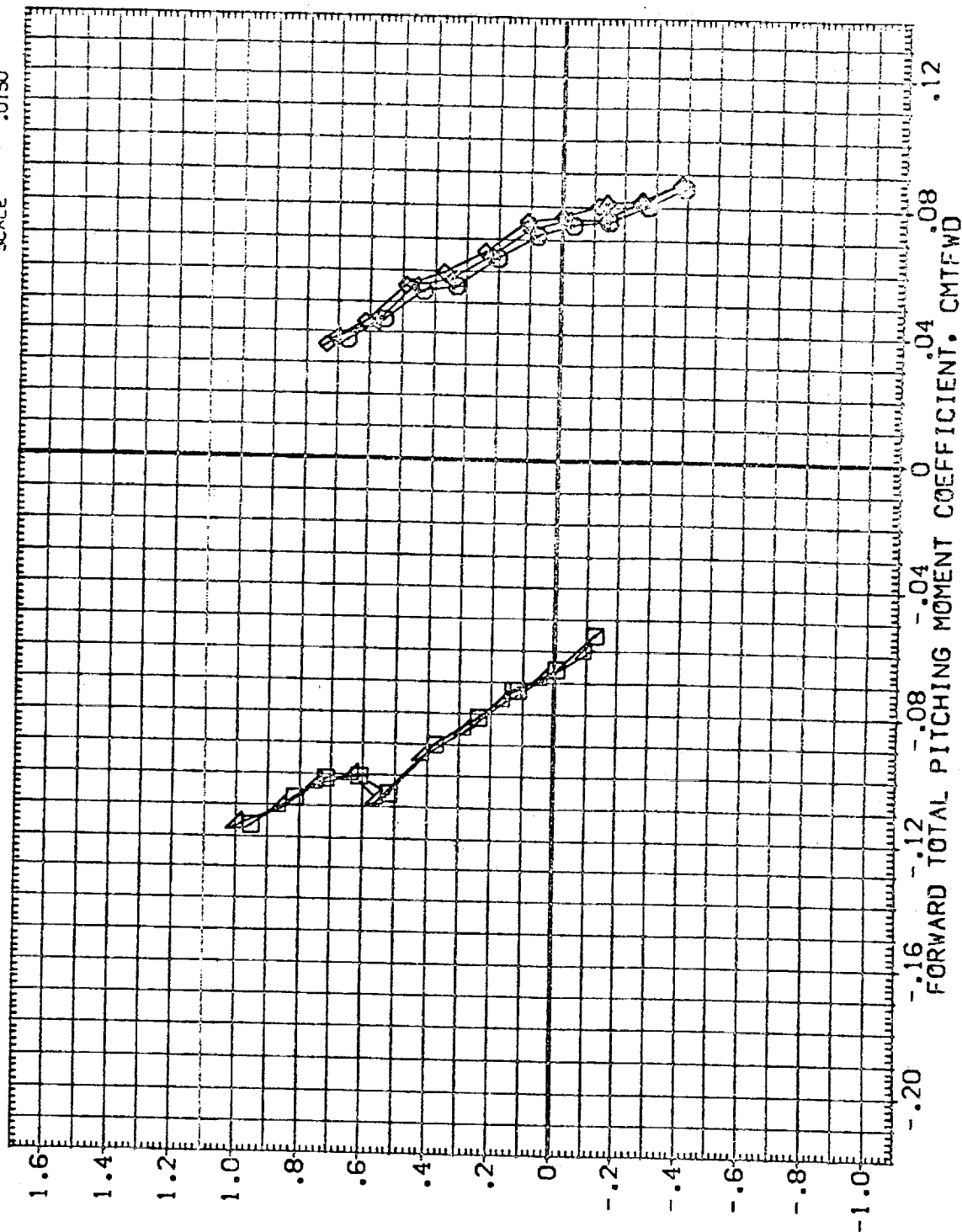


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(DMACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    80FLAP

(GER001)    ARC 66-709 QAS9 0A11A-(N24 RS V8)\*STRUT+OLM STNG    .000    .000    -11.700

(GER003)    DATA NOT AVAILABLE    .000    15.000    -11.700

(GER009)    DATA NOT AVAILABLE    .000    .000    -11.700

(GER012)    ARC 66-709 QAS9 0A11A-(RS V8)\*STRUT    .000    .000    -11.700

(GER013)    DATA NOT AVAILABLE    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

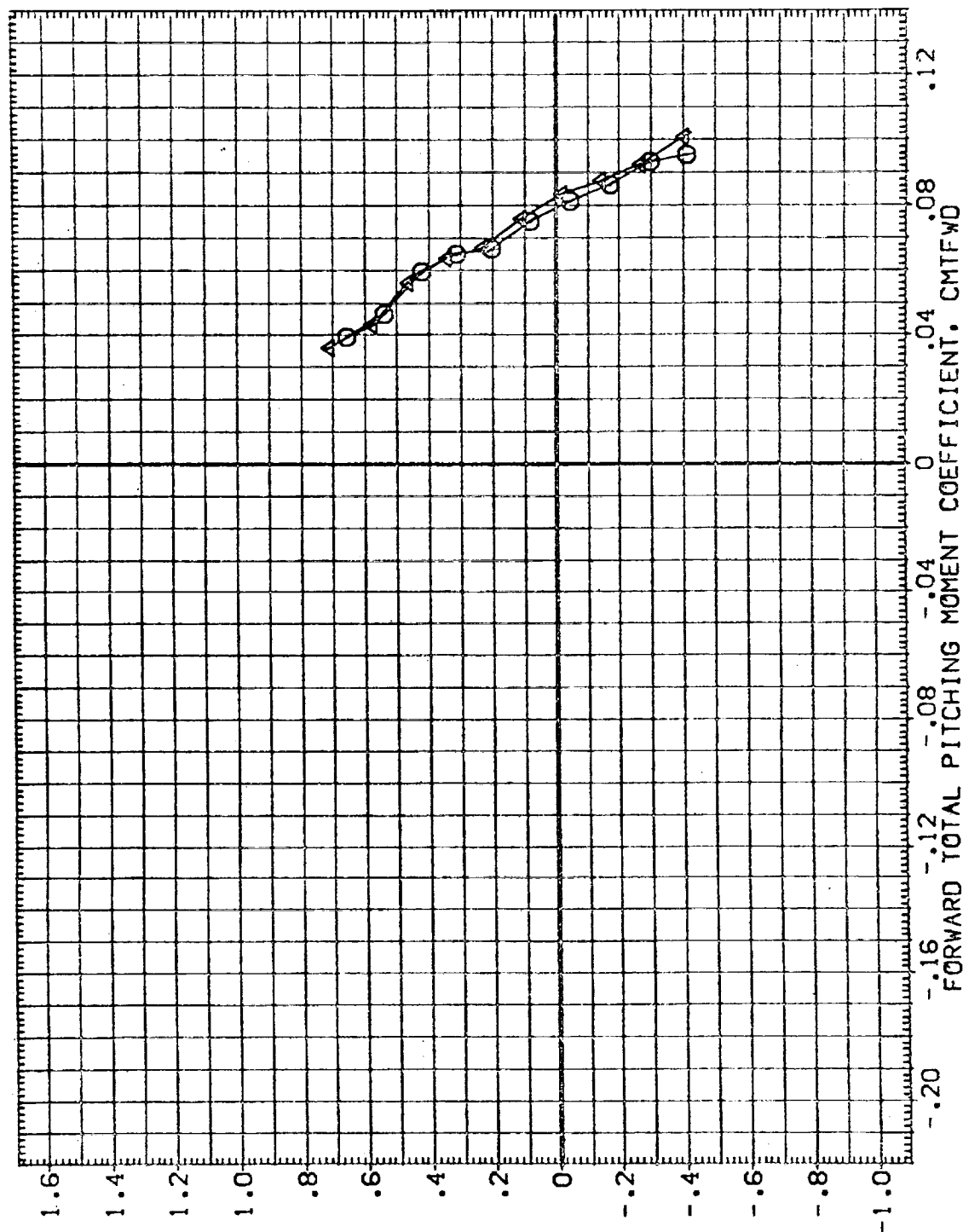
BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150



TOTAL NORMAL-FORCE COEFFICIENT, CnT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CEJMACH = .85

DATA SET SYMBOL  
(GER001)  
(GER003)  
(GER009)  
(GER012)  
(GER013)

CONFIGURATION DESCRIPTION  
ARC 66-709 0A59 0A11A-(N24 RS V8)\*STRUT+DUM STING  
ARC 66-709 0A59 0A11A-(N24 RS V8)\*STRUT+DUM STING  
ARC 66-709 0A59 0A11A-(N24 RS V8)\*STRUT  
ARC 66-709 0A59 0A11A-(RS V8)\*STRUT

BETA  
.000  
.000  
.000  
.000

ELEVON  
.000  
15.000  
.000  
15.000

BOFLAP  
-11.700  
-11.700  
-11.700  
-11.700

REFERENCE INFORMATION  
SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

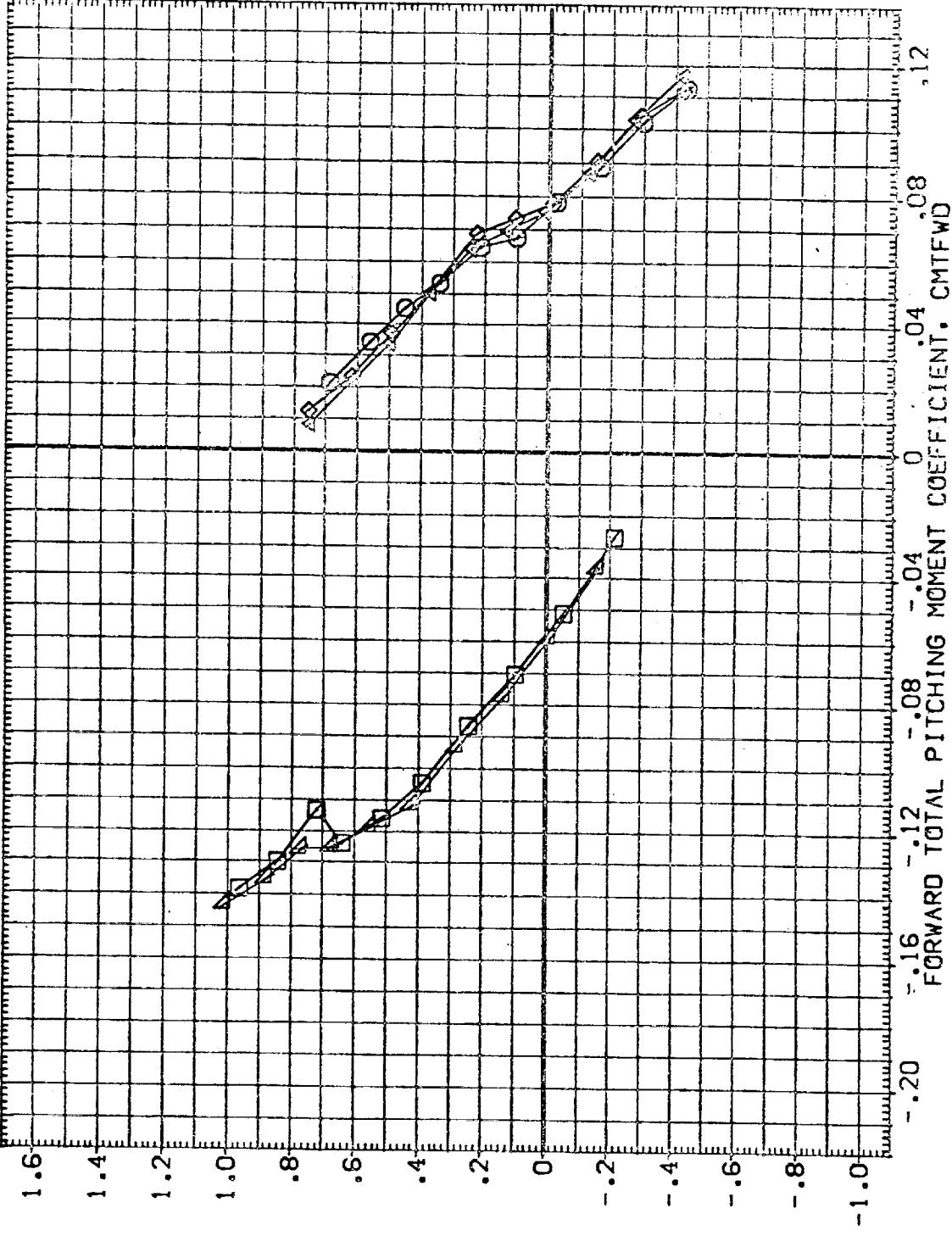


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	SREF	SQ.FT.
(GER001)	ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	LREF	.5935
(GER003)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF	1.1710
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP	12.6255
(GER012)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP	.0000
(GER013)	DATA NOT AVAILABLE	.000	.000	-11.700	ZMRP	-.3750
					SCALE	.0150

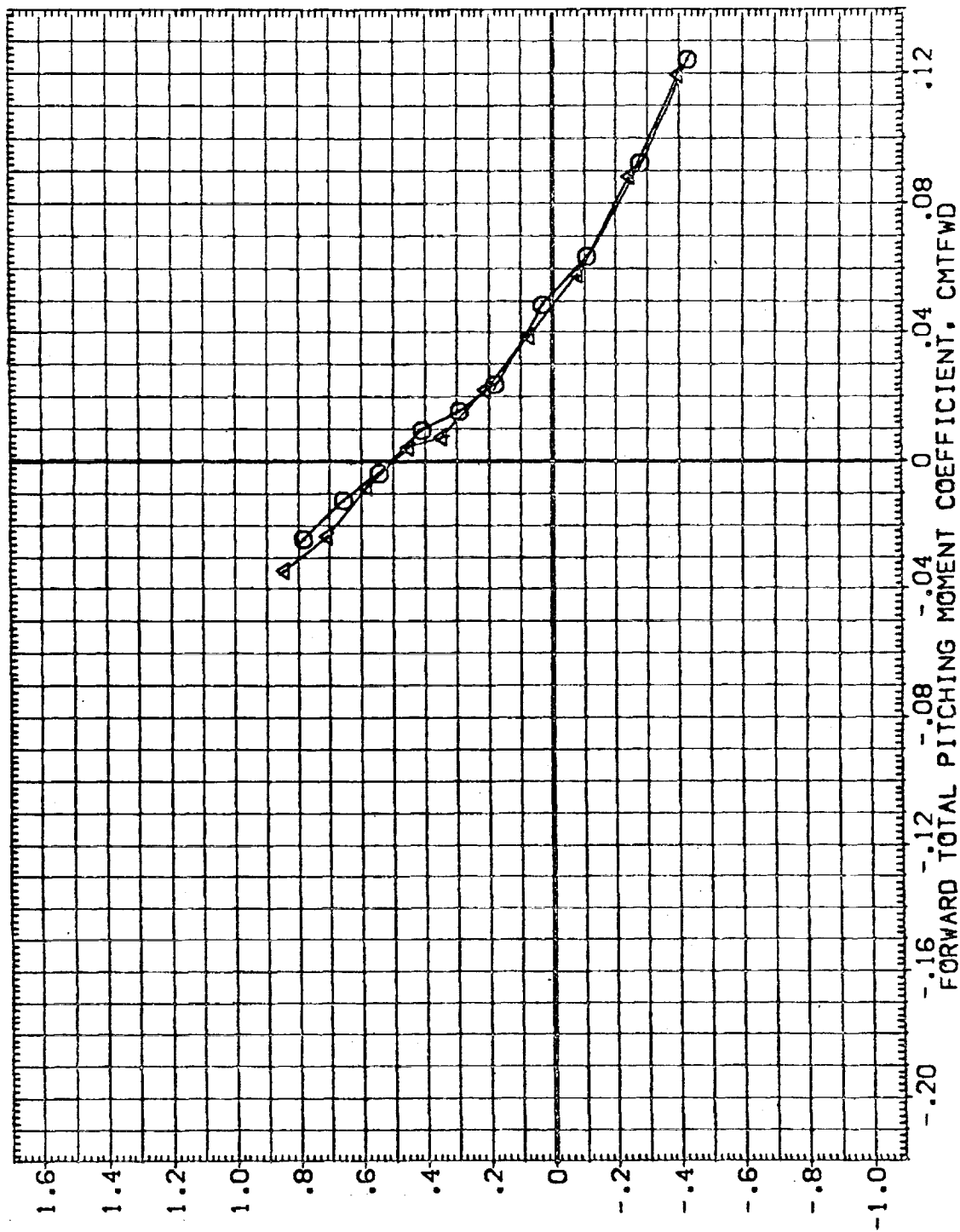


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER003}	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
{GER009}	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
{GER012}	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{GER013}	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

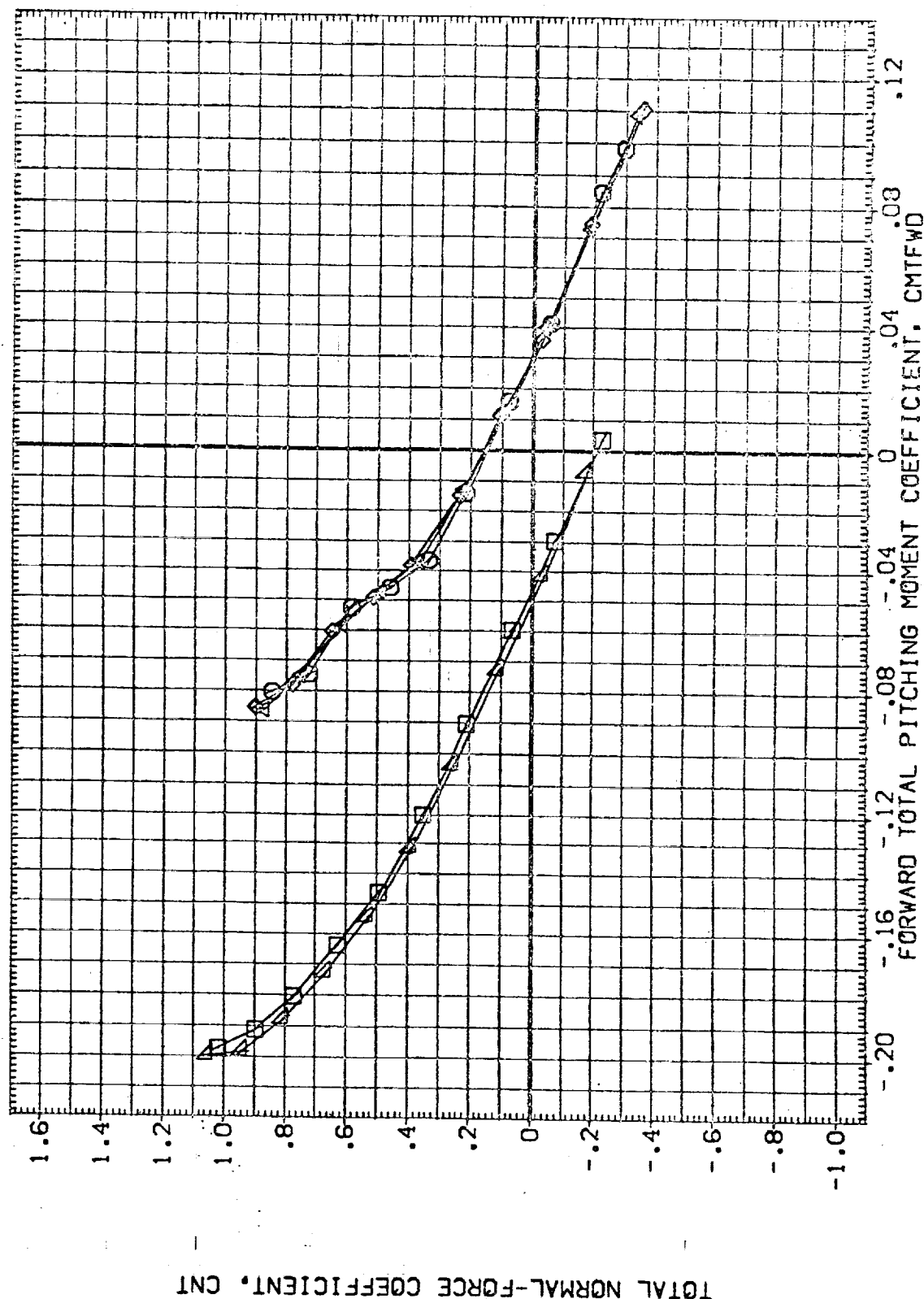


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    80FLAP

(GER001)    ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DJM STNG    .000    .000    -11.700

(GER003)    ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DJM STNG    .000    15.000    -11.700

(GER009)    ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DJM STNG    .000    .000    -11.700

(GER012)    ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT    .000    .000    -11.700

(GER013)    ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

YMRP    12.6255    IN.

ZMRP    -.0000    IN.

SCALE    -.3750    IN.

SCALE    .0150

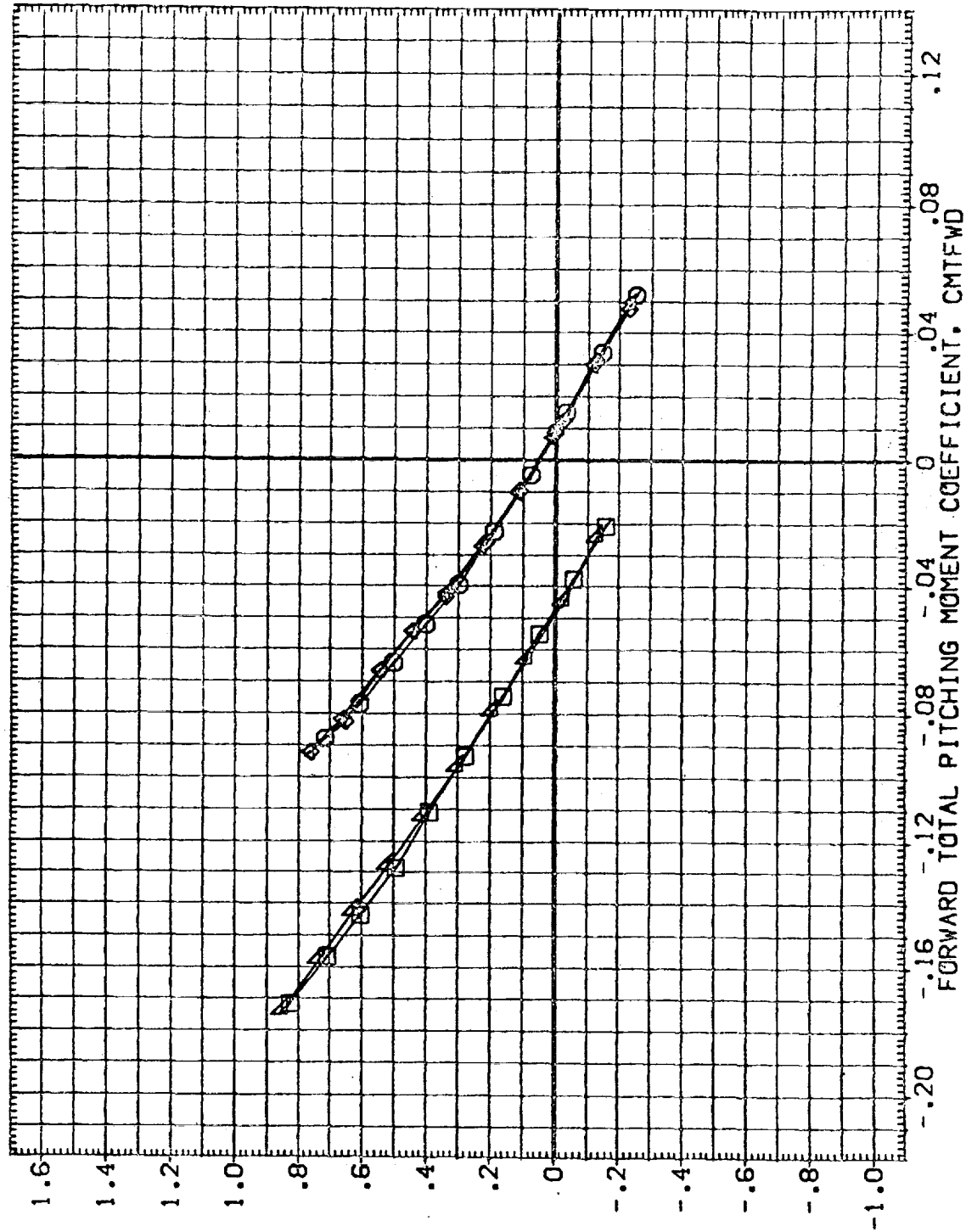


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

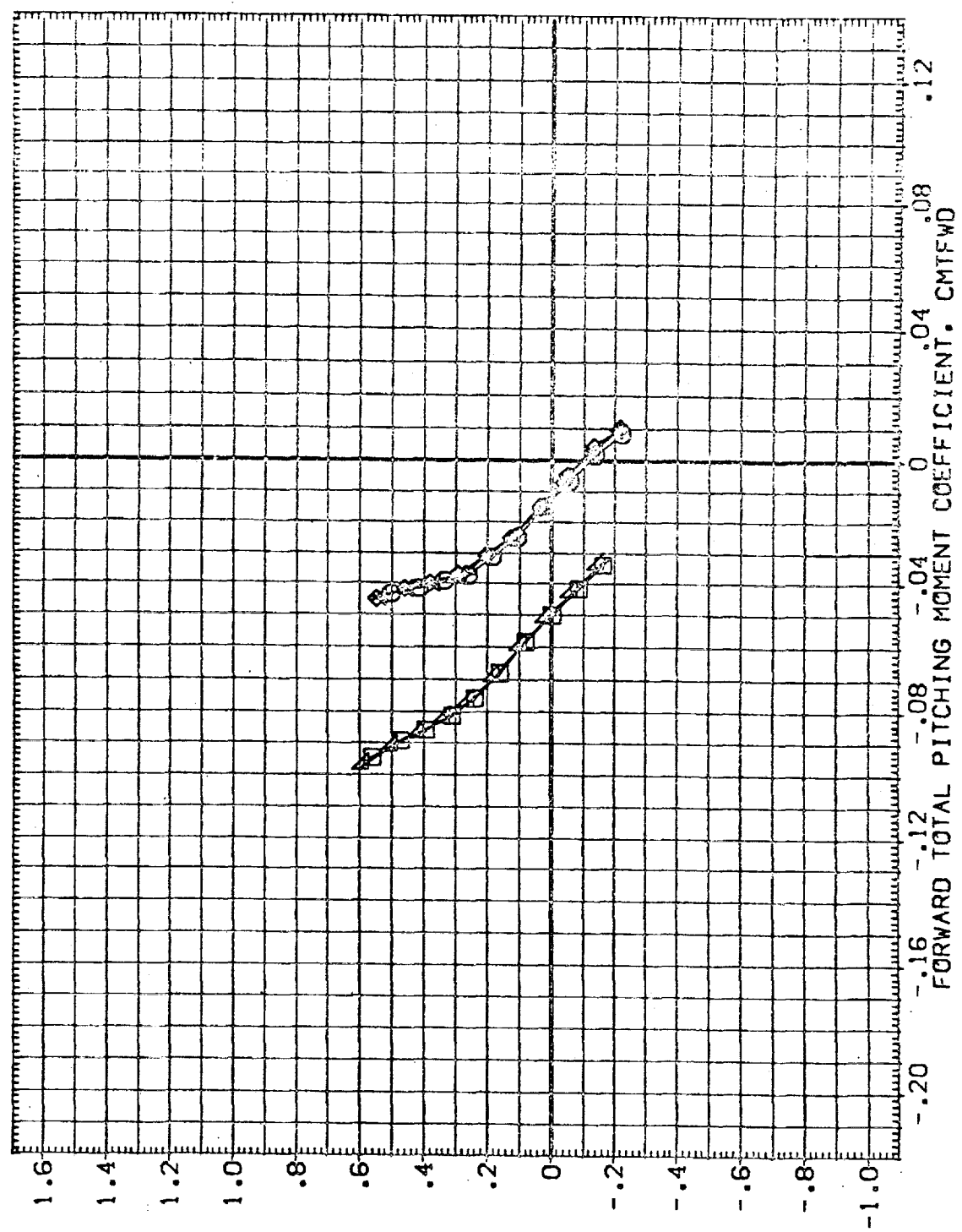


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    30FLAP

(GER001)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG    .000    .000    -11.700

(GER003)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG    .000    15.000    -11.700

(GER009)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT    .000    .000    -11.700

(GER012)    ARC 66-709 0A59 0A11A-(RS V81)+STRUT    .000    .000    -11.700

(GER013)    ARC 66-709 0A59 0A11A-(RS V81)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

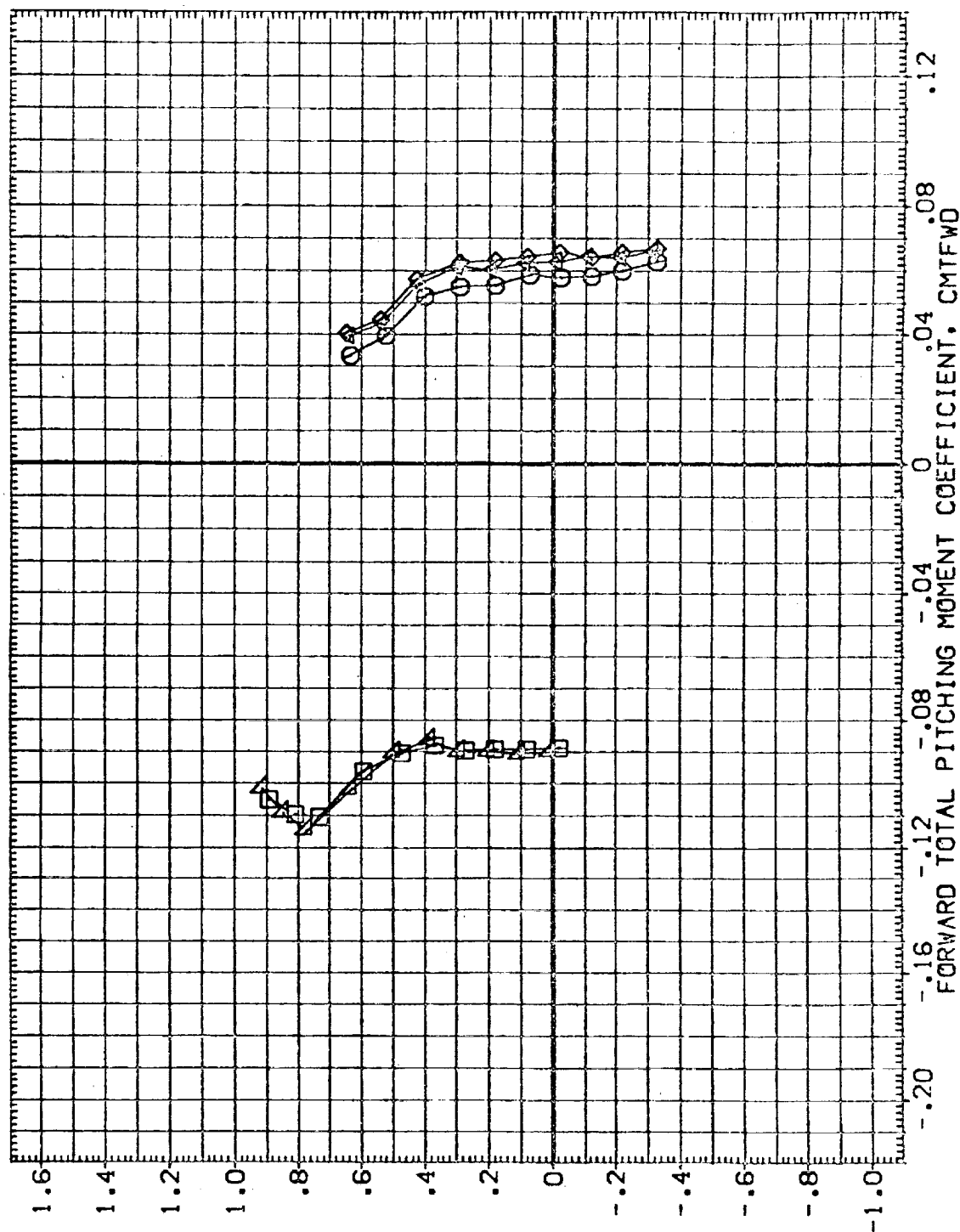


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

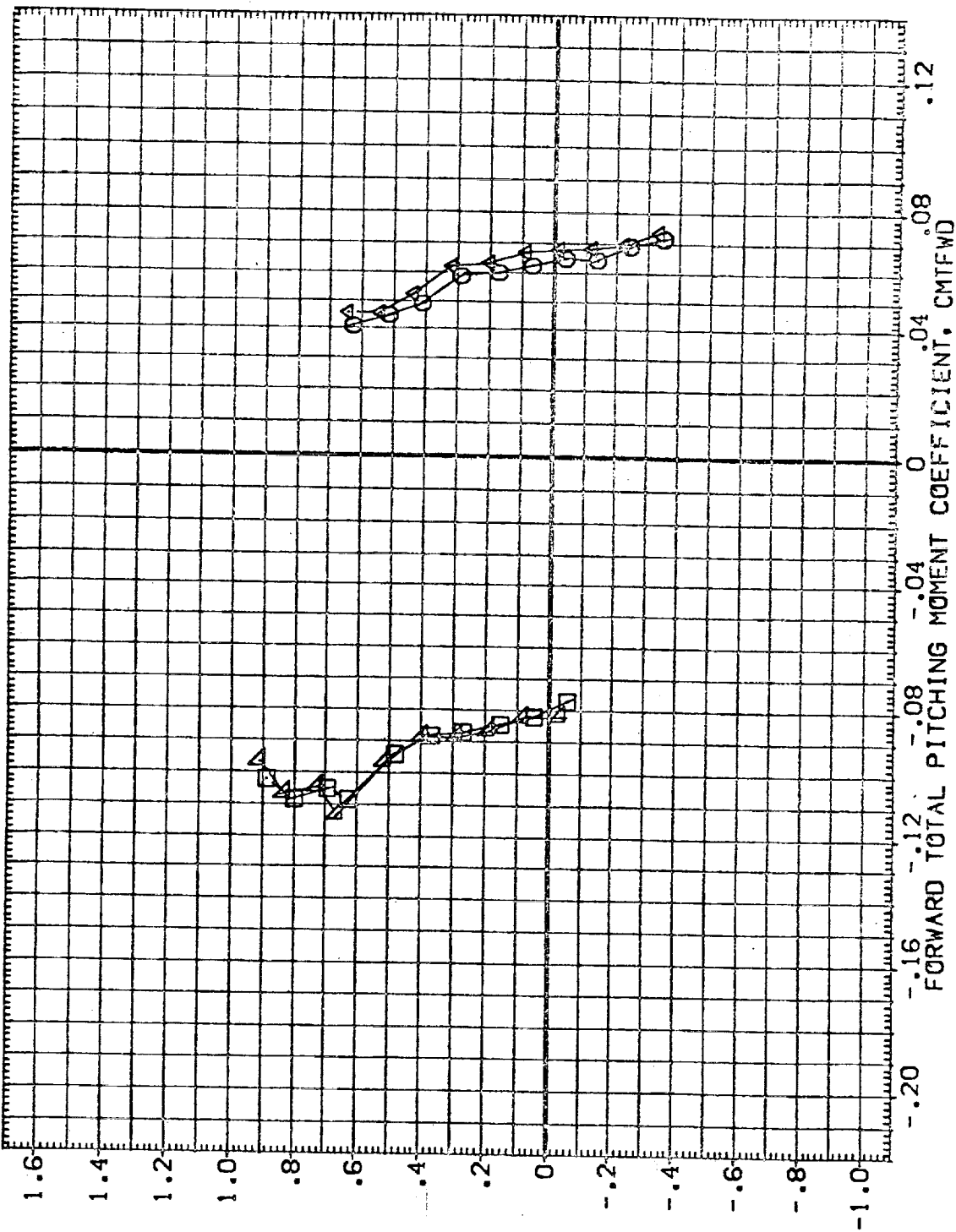


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

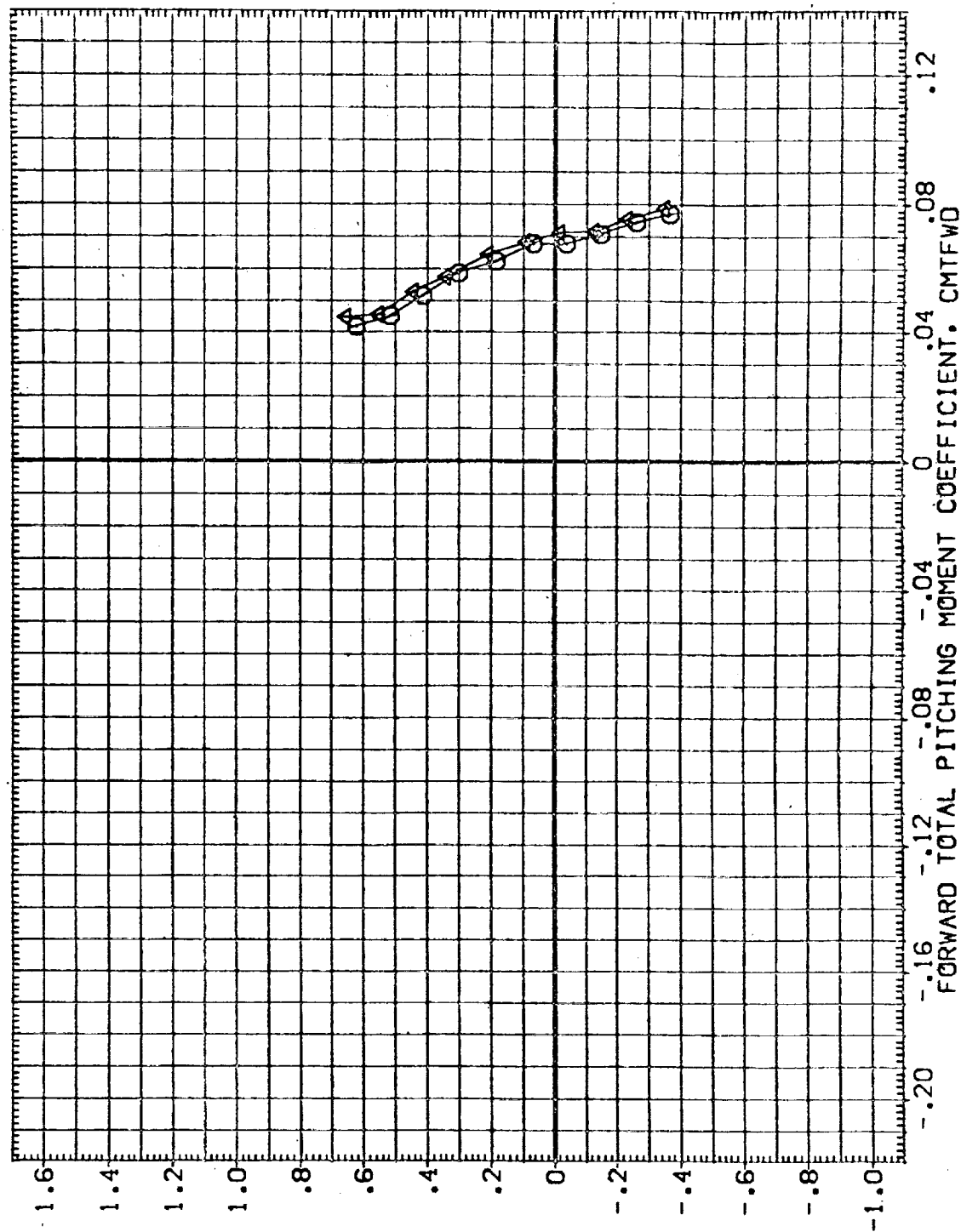


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

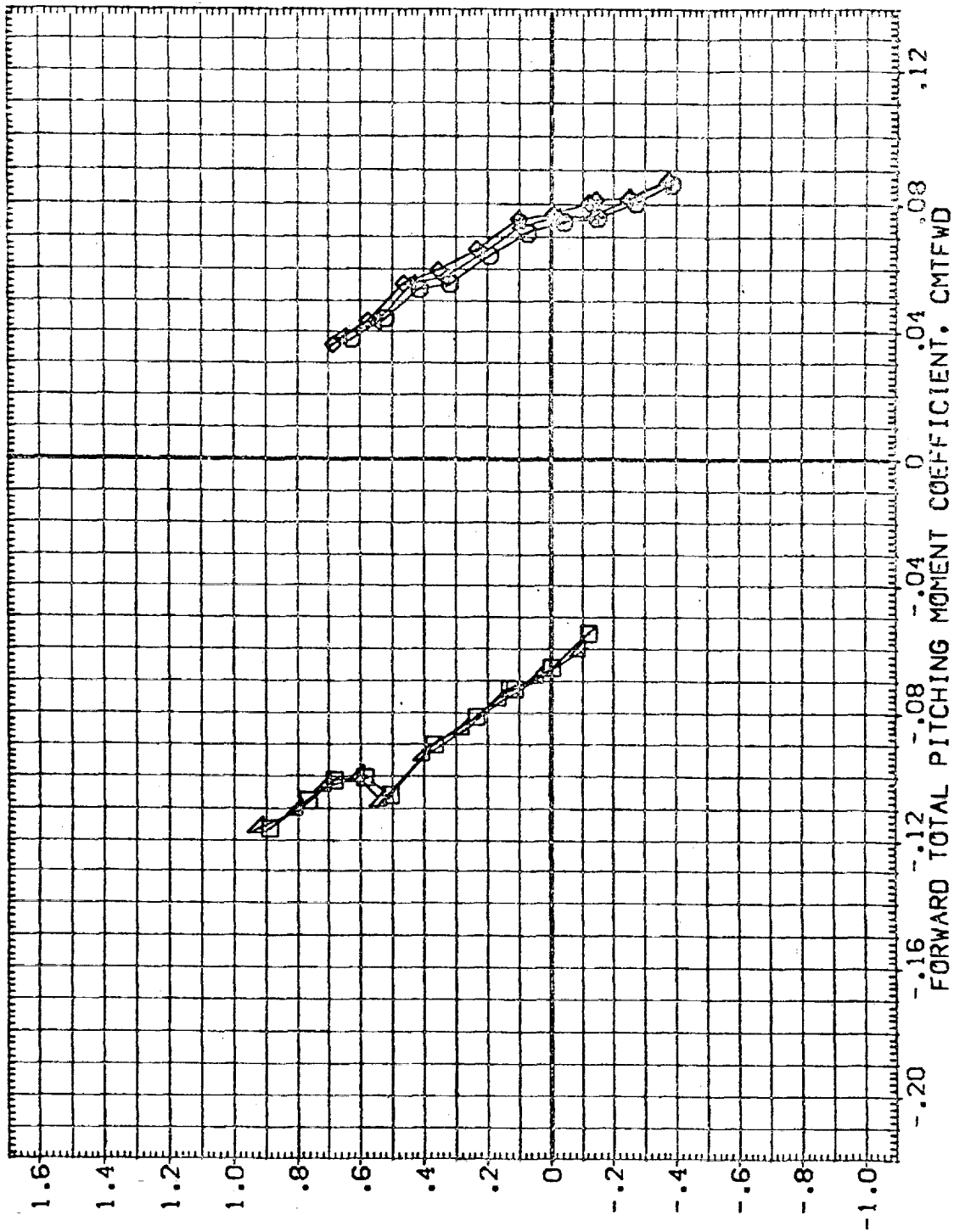


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 OAS9 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 OA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

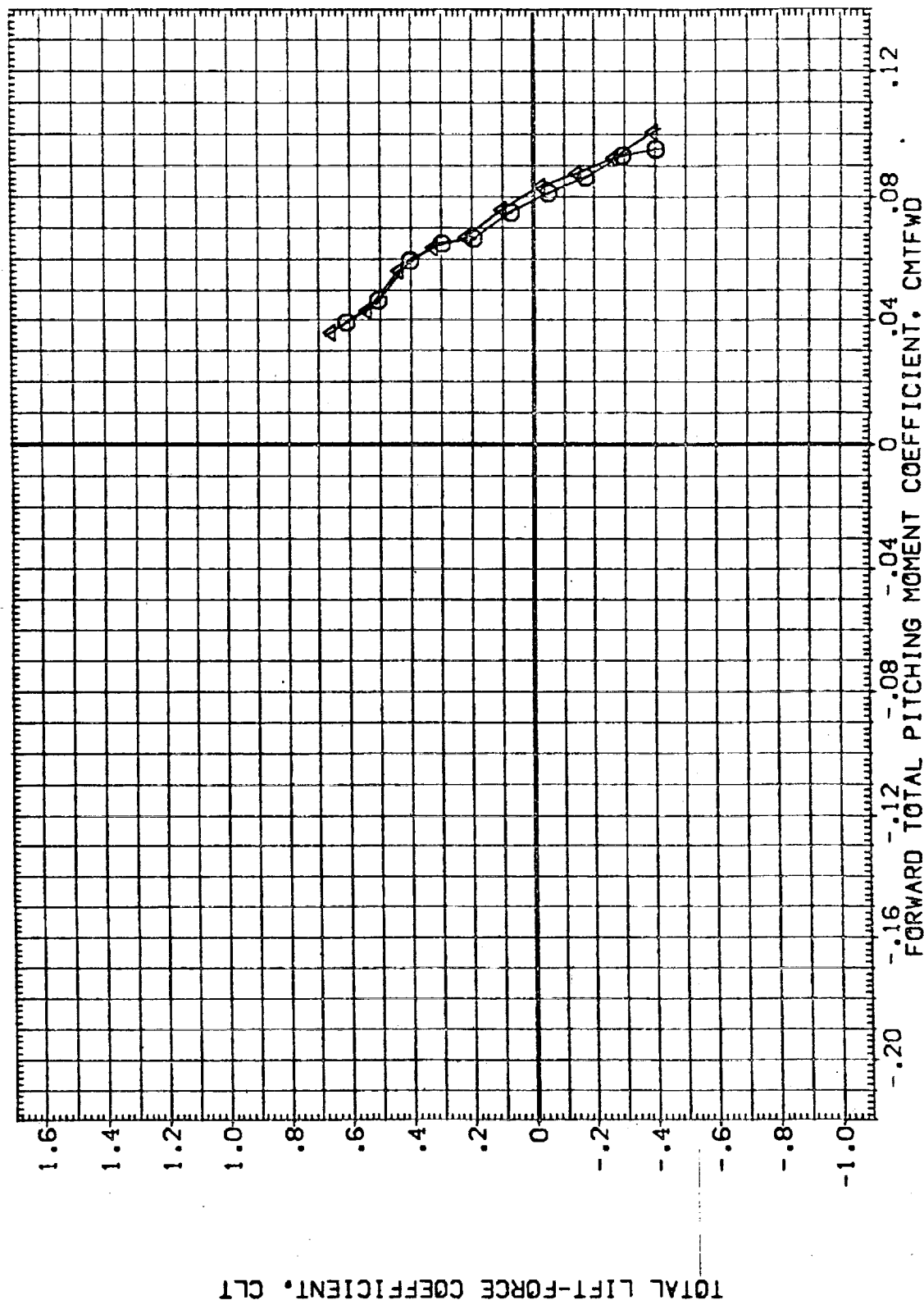


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
[GER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER013]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

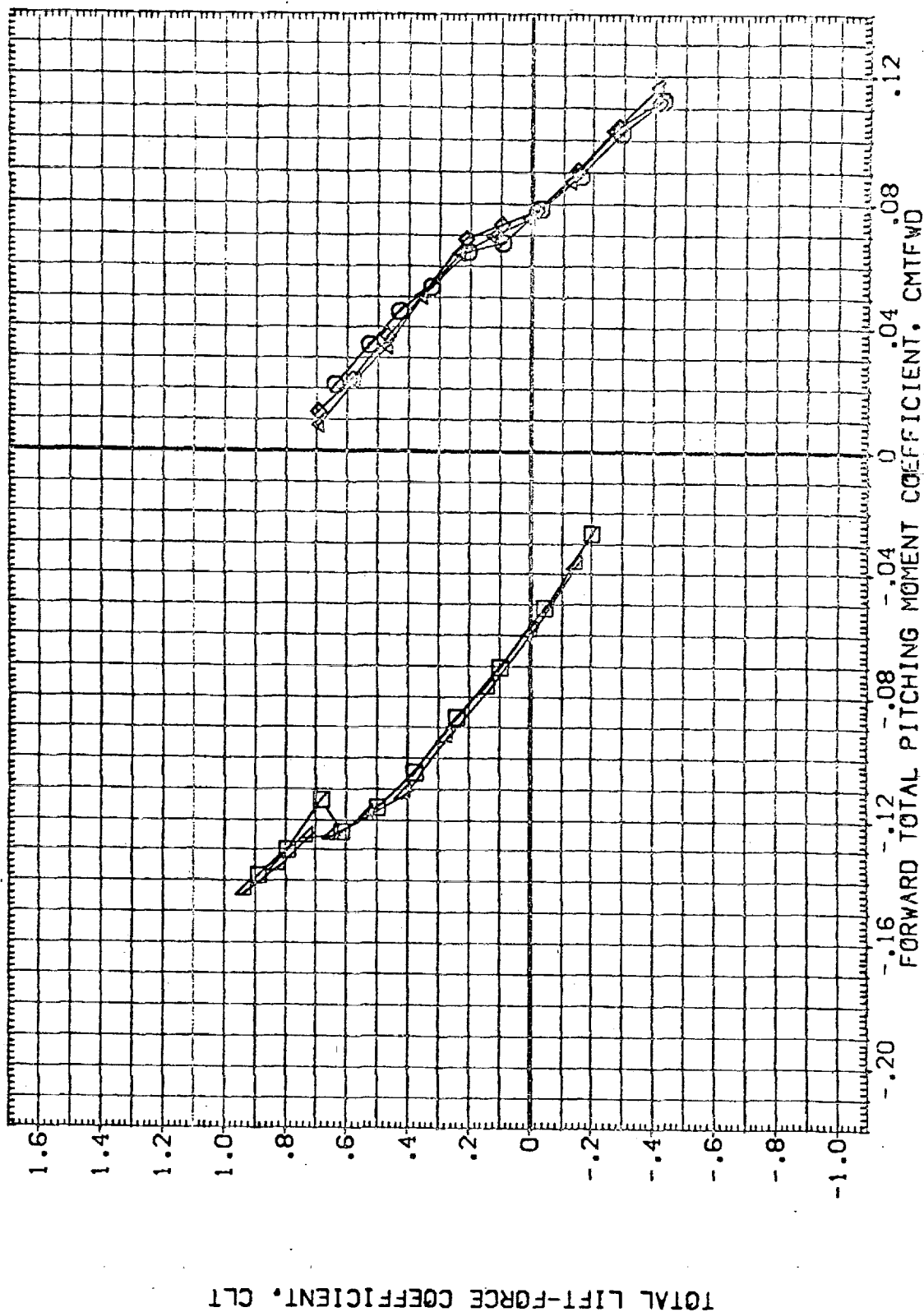


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	SREF	.8053	50.FT.
(GER003)	DATA NOT AVAILABLE	LREF	.5935	FT.
(GER009)	DATA NOT AVAILABLE	BREF	1.1710	IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	XMRP	12.6255	IN.
(GER013)	DATA NOT AVAILABLE	YMRP	.0000	IN.
		ZMRP	-.3750	IN.
		SCALE	.0150	

BETA    ELEVON    BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

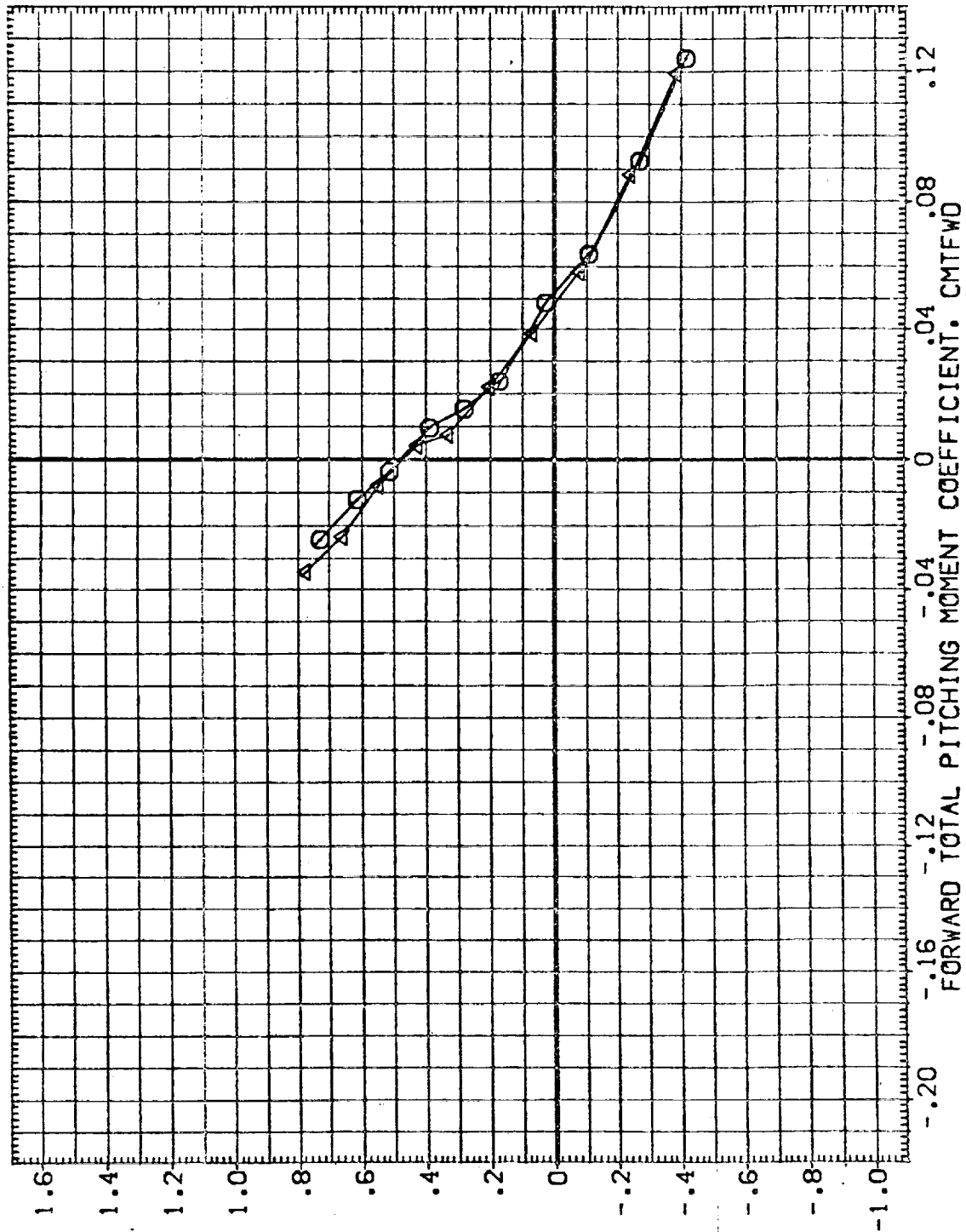


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BUFLAP	REFERENCE INFORMATION
(GR001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .5053 SQ.FT.
(GR003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GR009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GR012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GR013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP -.0000 IN.
					SCALE -.3750 IN.

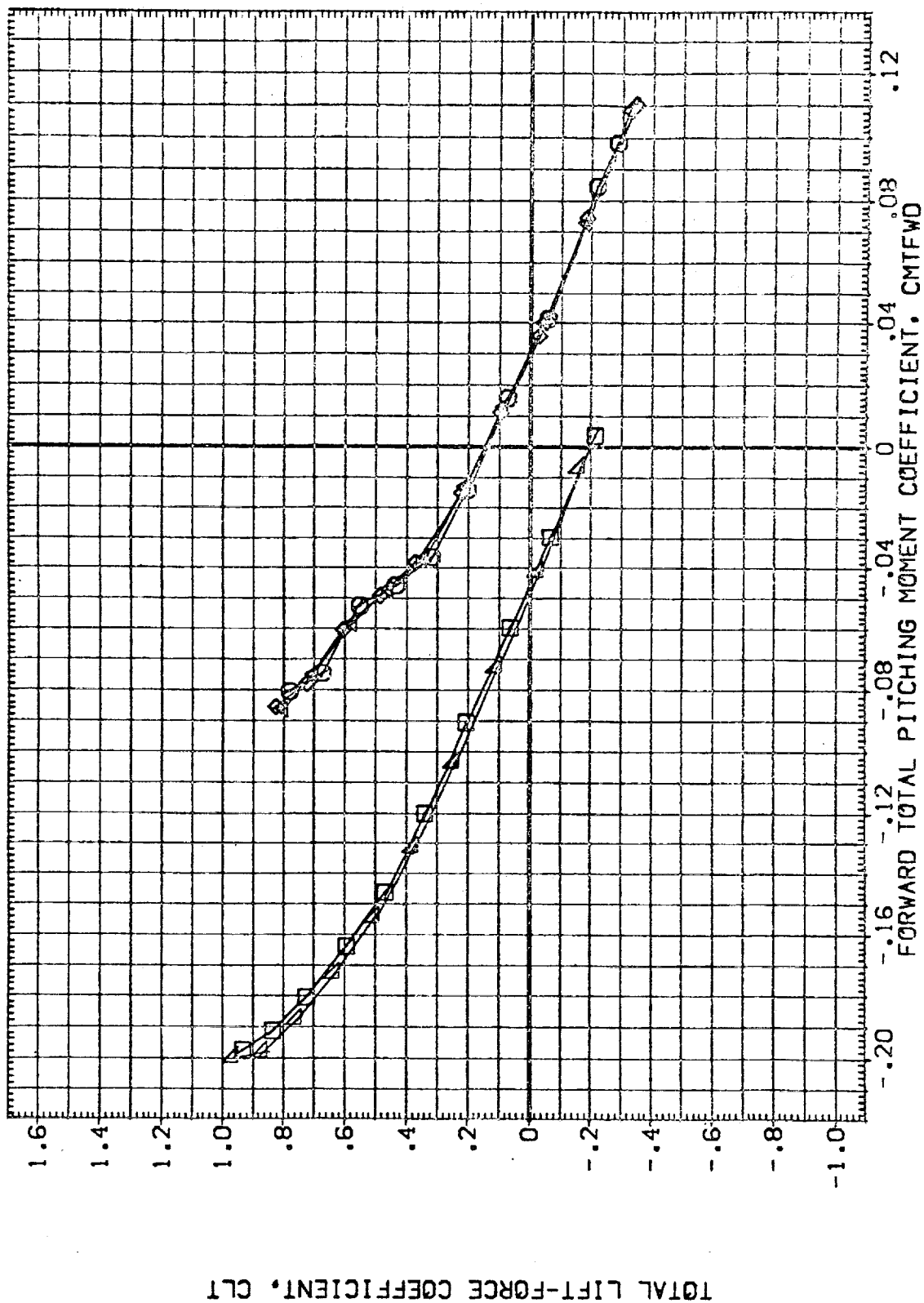


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

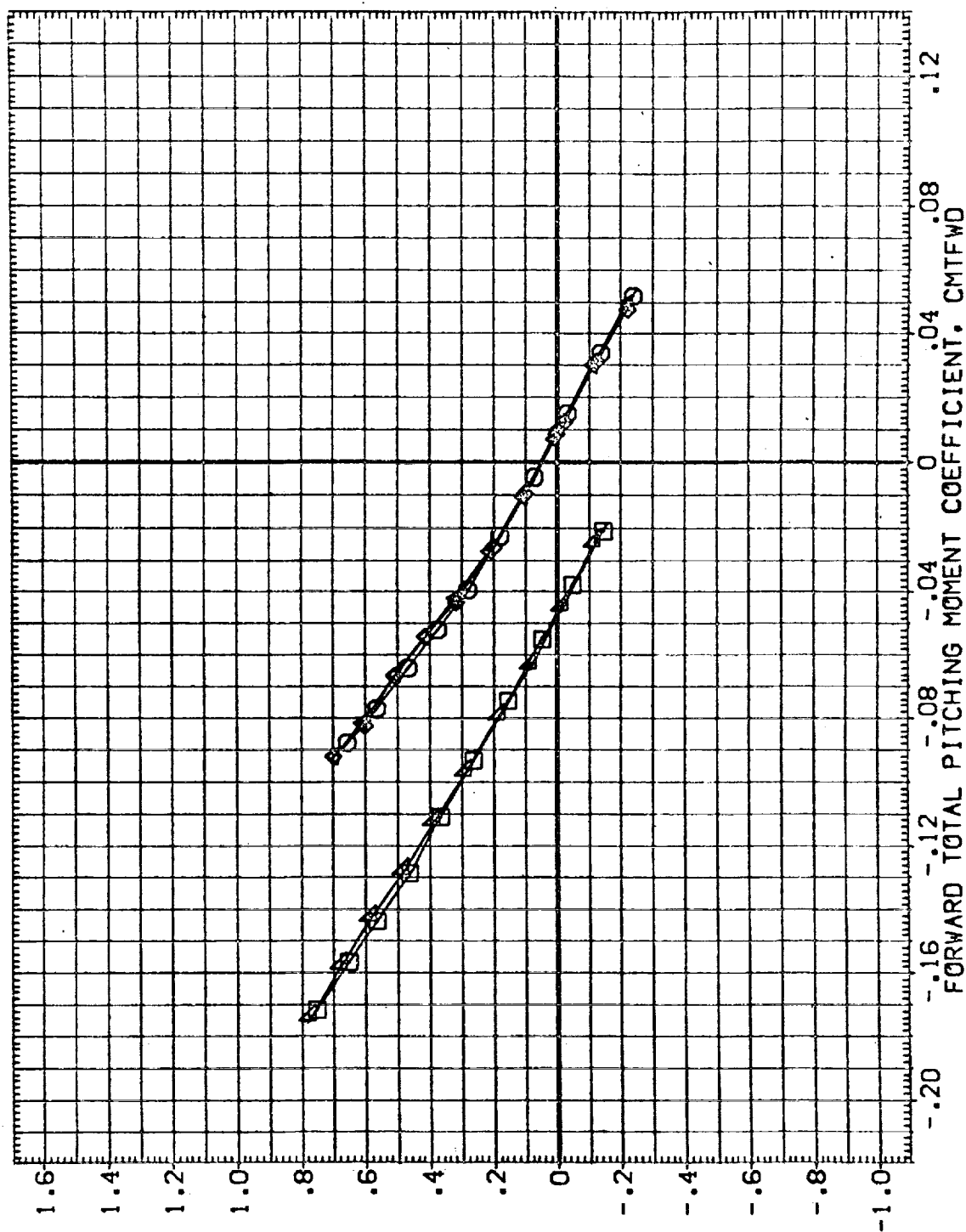


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)    ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING    .000    .000    -11.700    SREF    .6053    50. FT.

(GER003)    ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING    .000    15.000    -11.700    LREF    .5035    FT.

(GER009)    ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT    .000    .000    -11.700    BREF    1.1710    FT.

(GER012)    ARC 66-709 0A59 0A11A-(RS V8)-STRUT    .000    .000    -11.700    XMRP    12.6235    IN.

(GER013)    ARC 66-709 0A59 0A11A-(RS V8)-STRUT    .000    15.000    -11.700    YMRP    .0000    IN.

SCALE    .0150

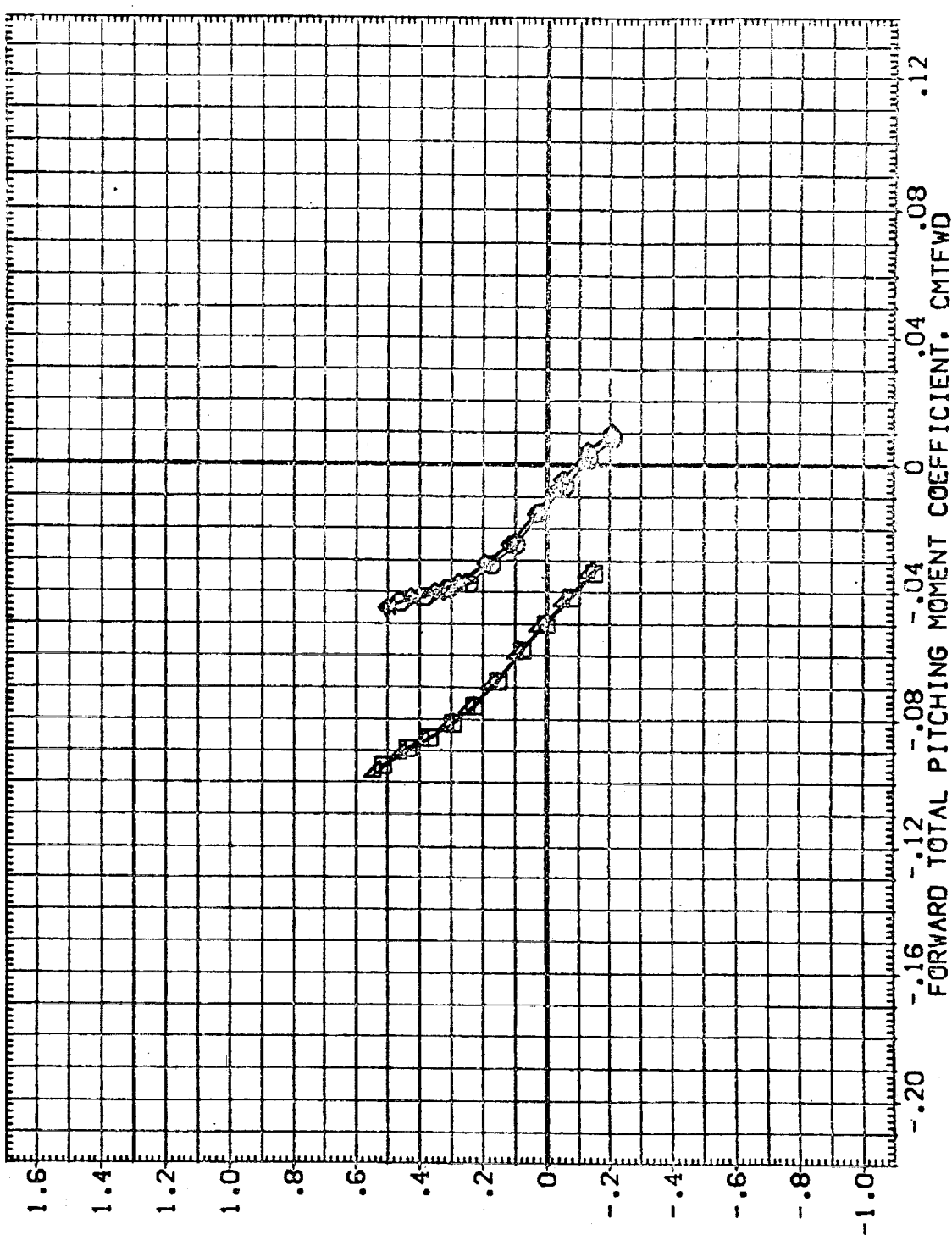


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA    ELEVON    BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.8053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6755	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

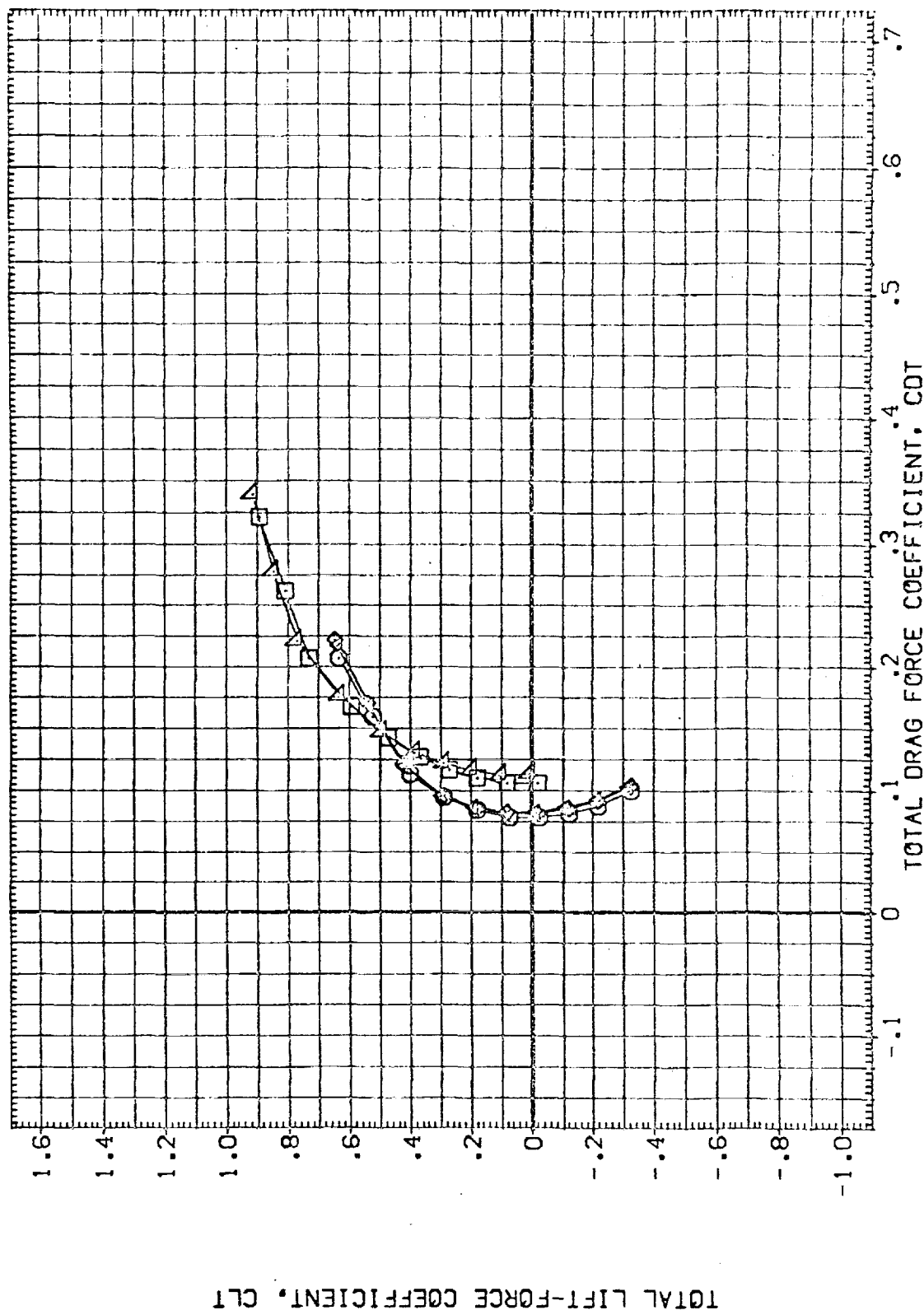


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING

(GER003)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING

(GER009)    DATA NOT AVAILABLE

(GER012)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(GER013)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

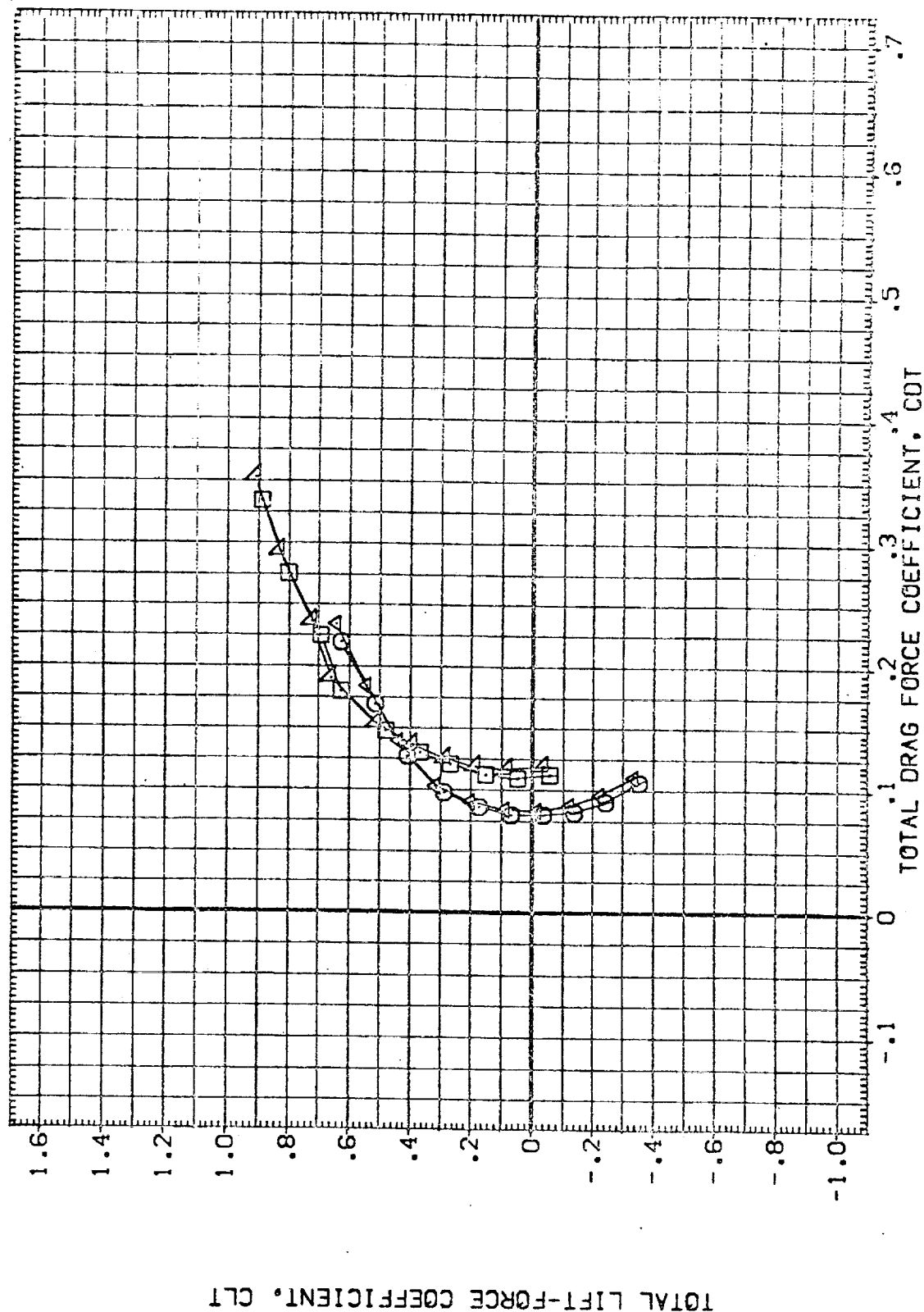


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG

(GER003)    DATA NOT AVAILABLE

(GER009)    DATA NOT AVAILABLE

(GER012)    ARC 66-709 OAS9 DA11A-(RS V8)+STRUT

(GER013)    DATA NOT AVAILABLE

BETA    ELEVON    GOLFAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

YMRP    12.6255    IN.

ZMRP    .0000    IN.

SCALE    -.3750    IN.

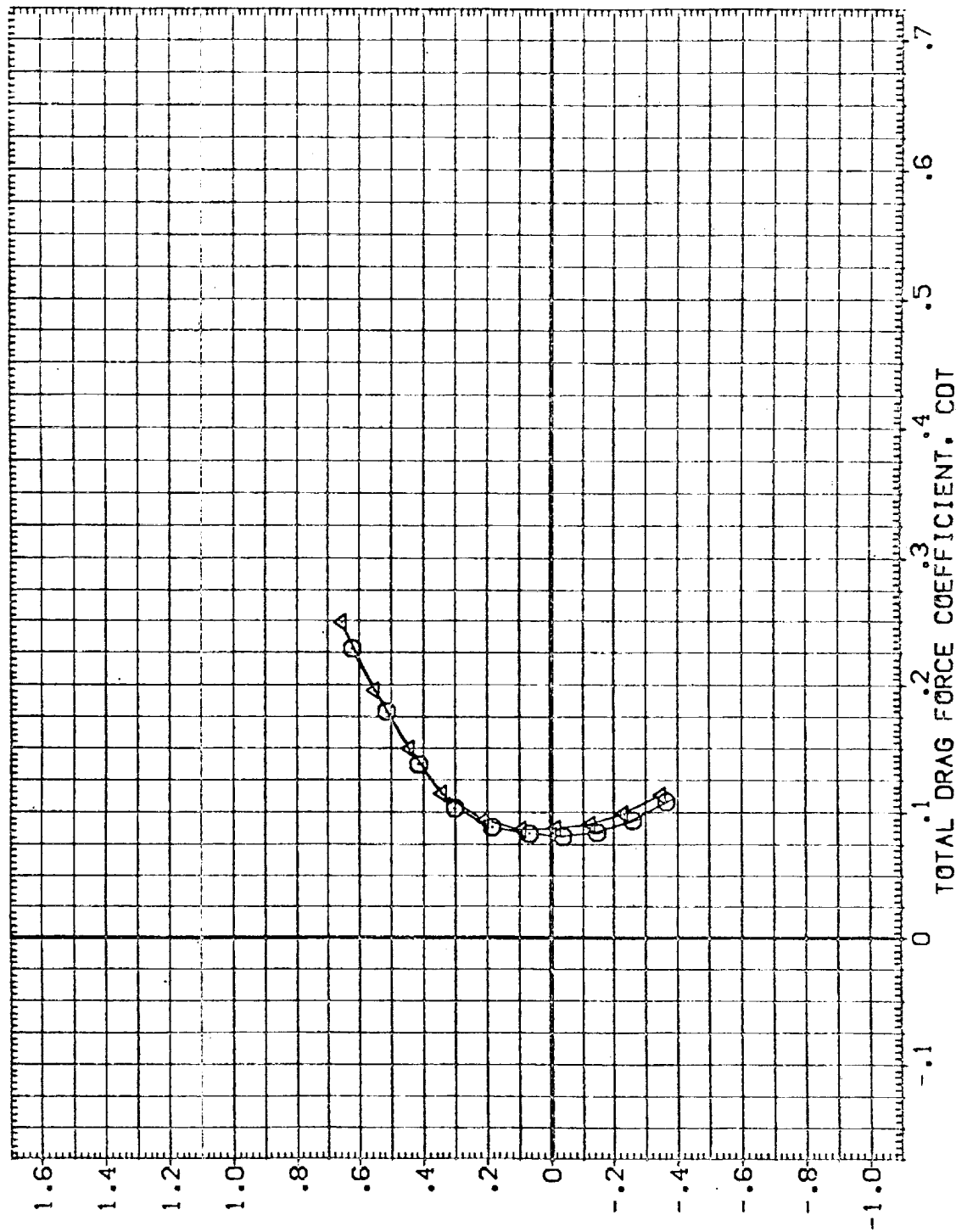


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V8)\*STRUT+DUM STING

(GER003) ARC 66-709 0A59 0A11A-(N24 RS V8)\*STRUT+DUM STING

(GER009) ARC 66-709 0A59 0A11A-(N24 RS V8)\*STRUT

(GER012) ARC 66-709 0A59 0A11A-(RS V8)\*STRUT

(GER013) ARC 66-709 0A59 0A11A-(RS V8)\*STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

15.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

15.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6265 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

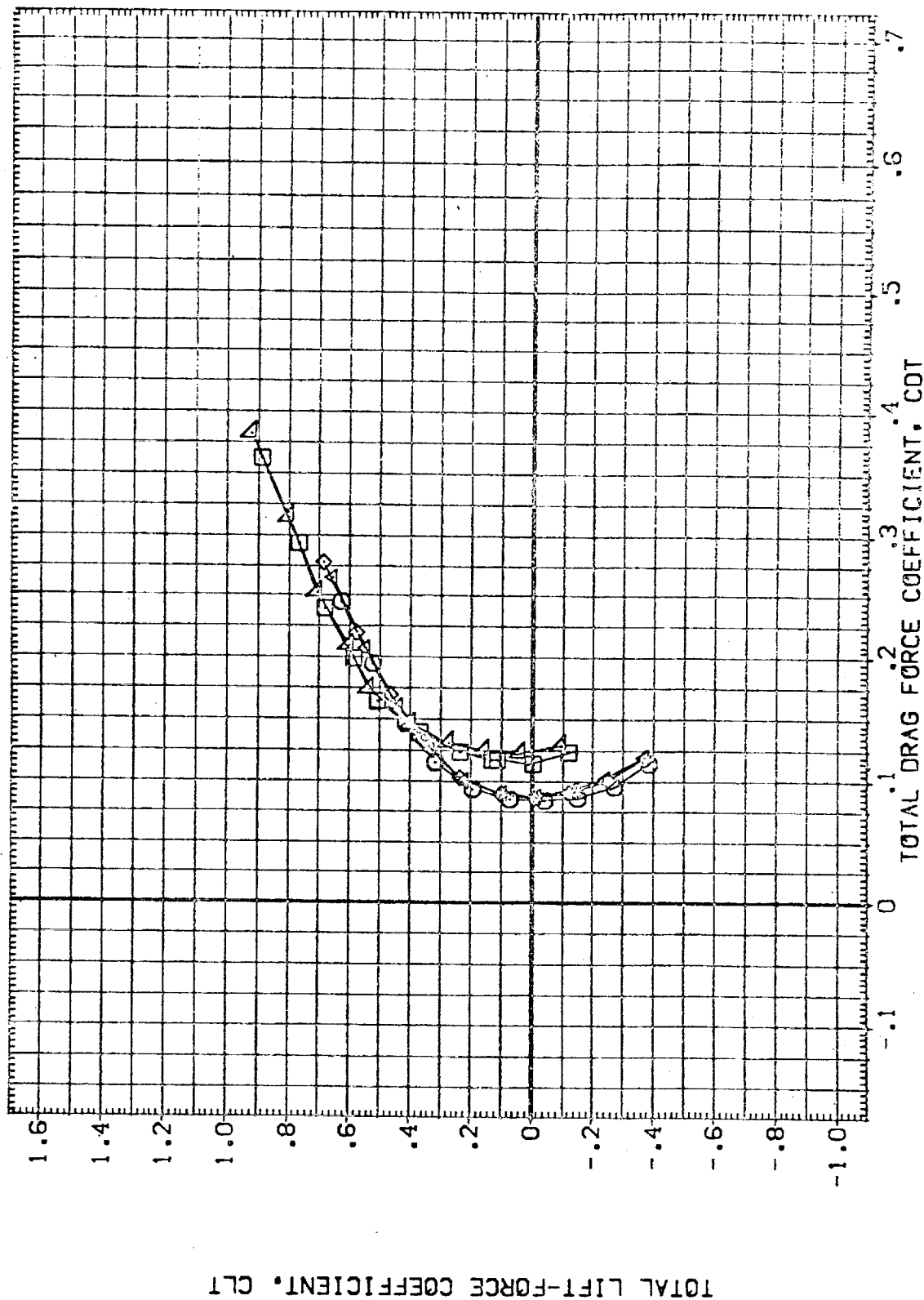


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(DJMACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

(GER001)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG    .000    .000    -11.700

(GER003)    DATA NOT AVAILABLE    .000    15.000    -11.700

(GER009)    DATA NOT AVAILABLE    .000    .000    -11.700

(GER012)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT    .000    .000    -11.700

(GER013)    DATA NOT AVAILABLE    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

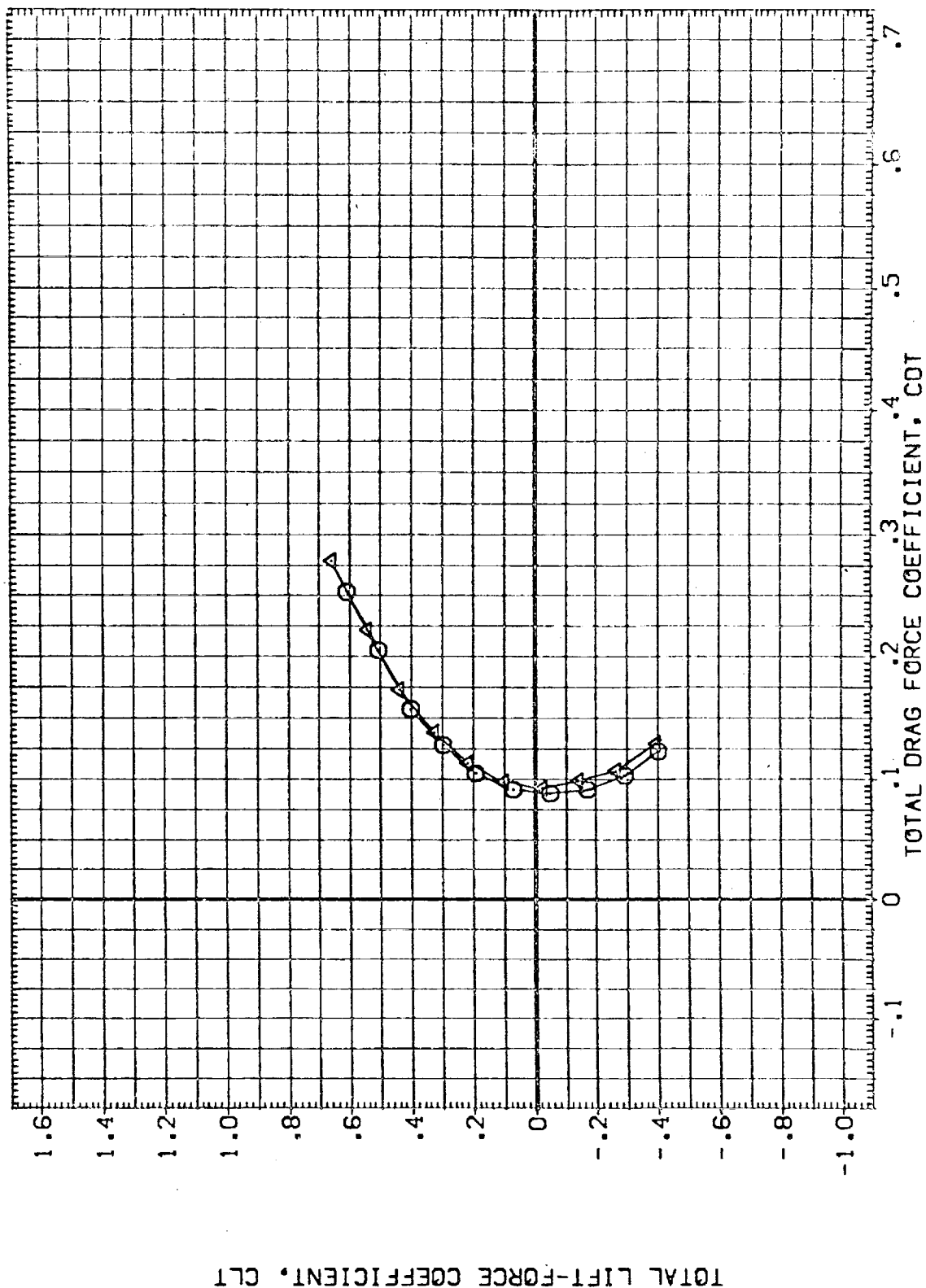


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .8053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

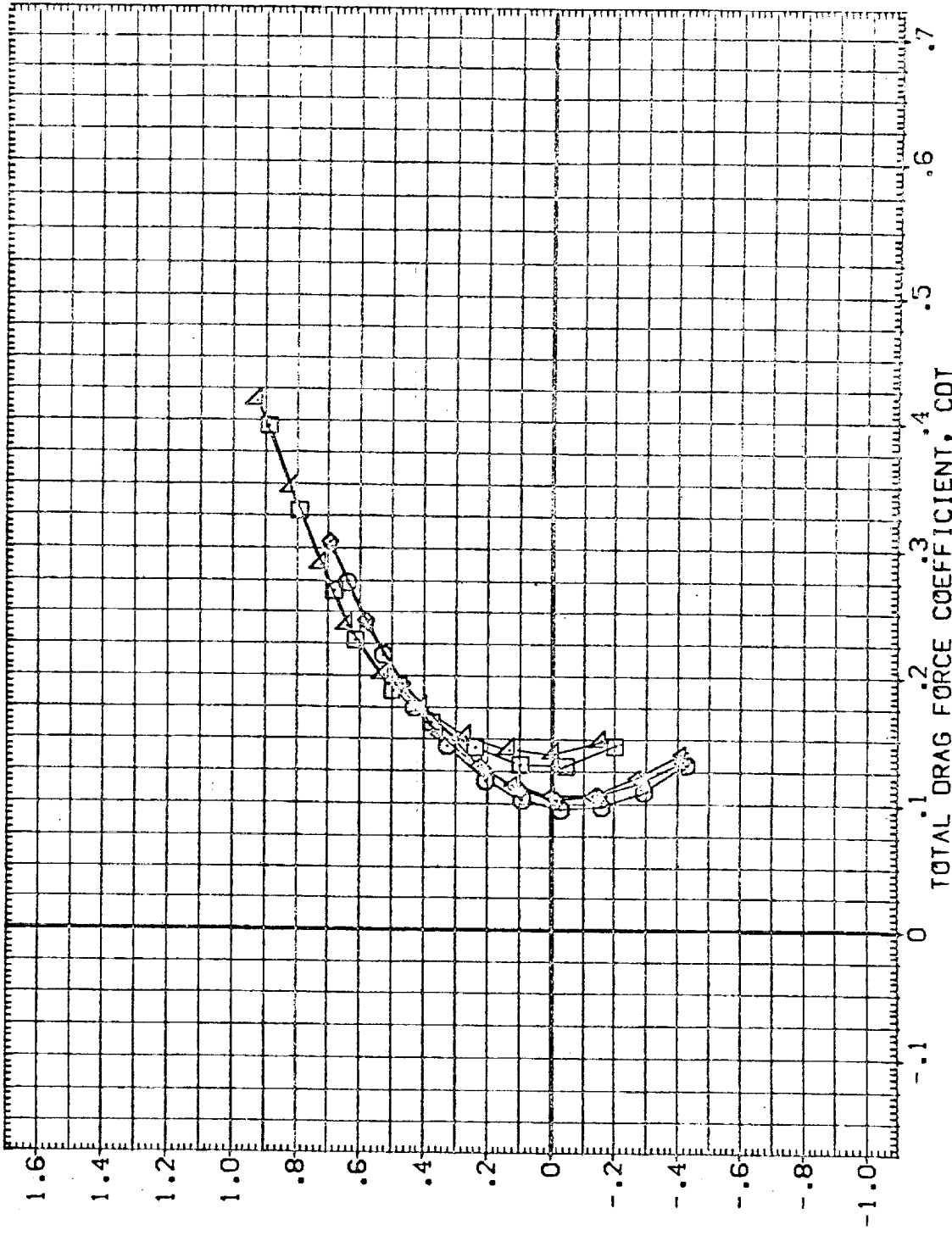


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 OAS9 OALIA-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 OALIA-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

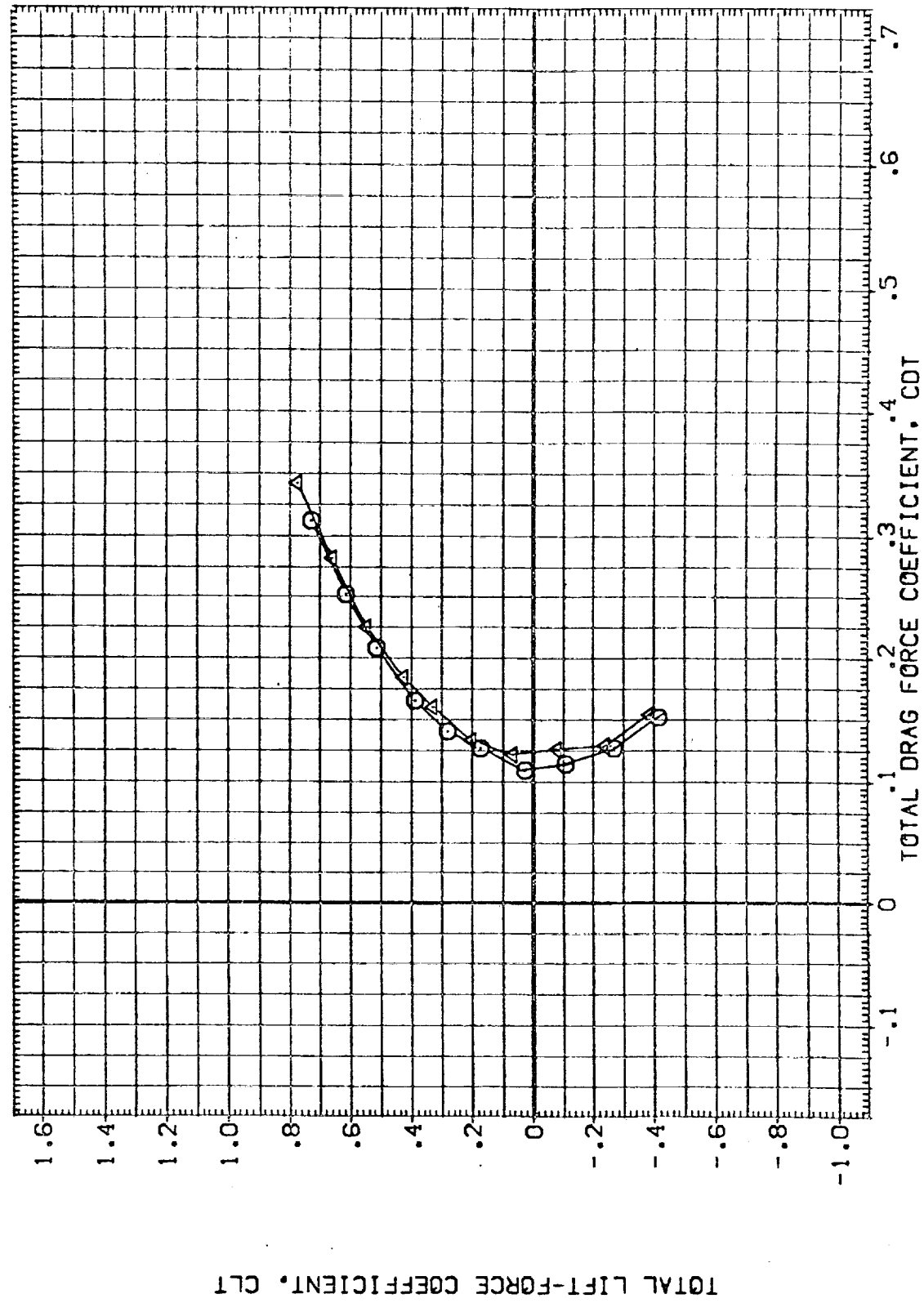


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.8755 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

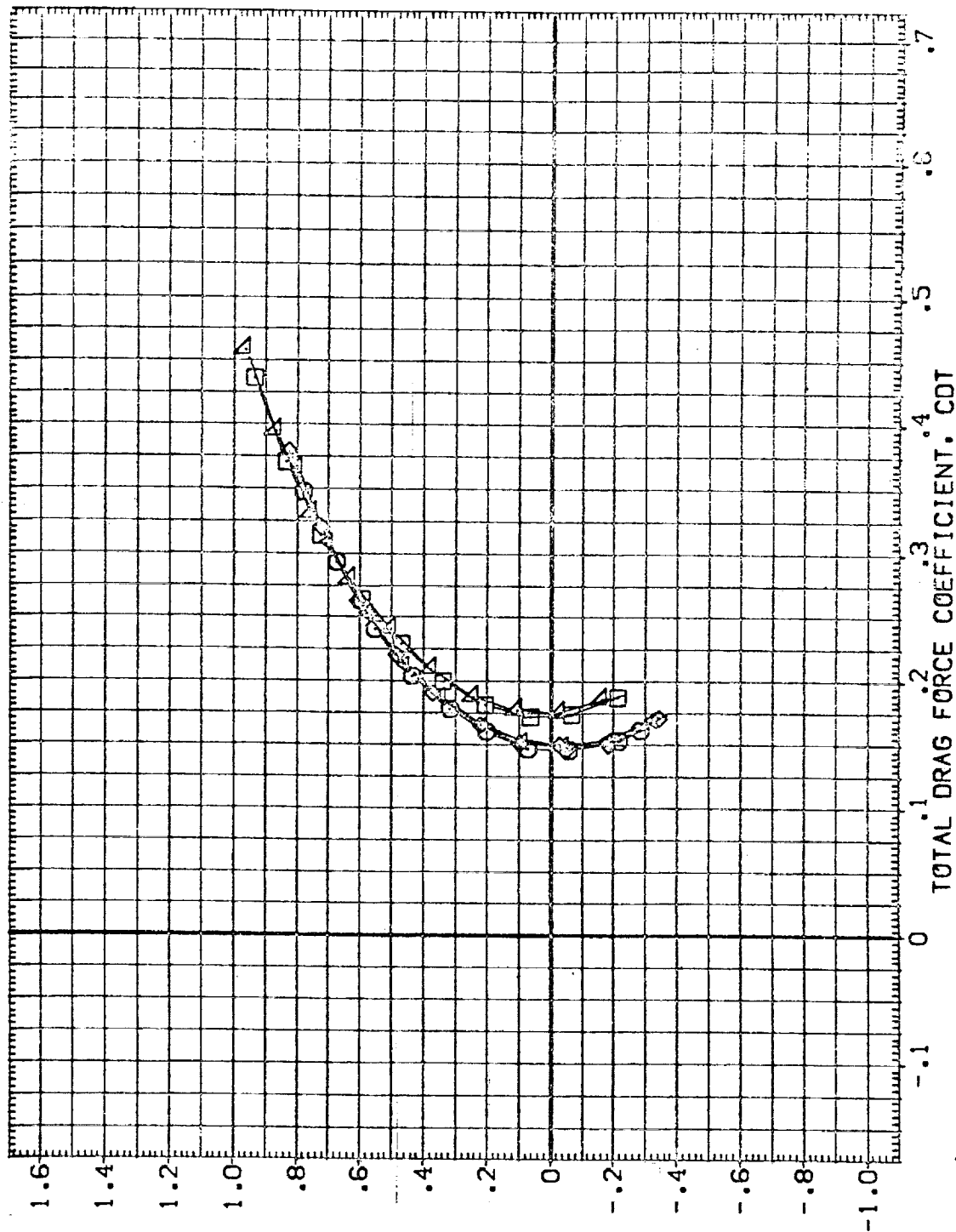


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

(GER001)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    .000    -11.700

(GER003)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    15.000    -11.700

(GER009)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT    .000    .000    -11.700

(GER012)    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    .000    -11.700

(GER013)    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .8053    SQ.FT.  
LREF    .5935    FT.  
BREF    1.1710    FT.  
XMRP    12.6235    IN.  
YMRP    .0000    IN.  
ZMRP    -.3750    IN.  
SCALE    .0150

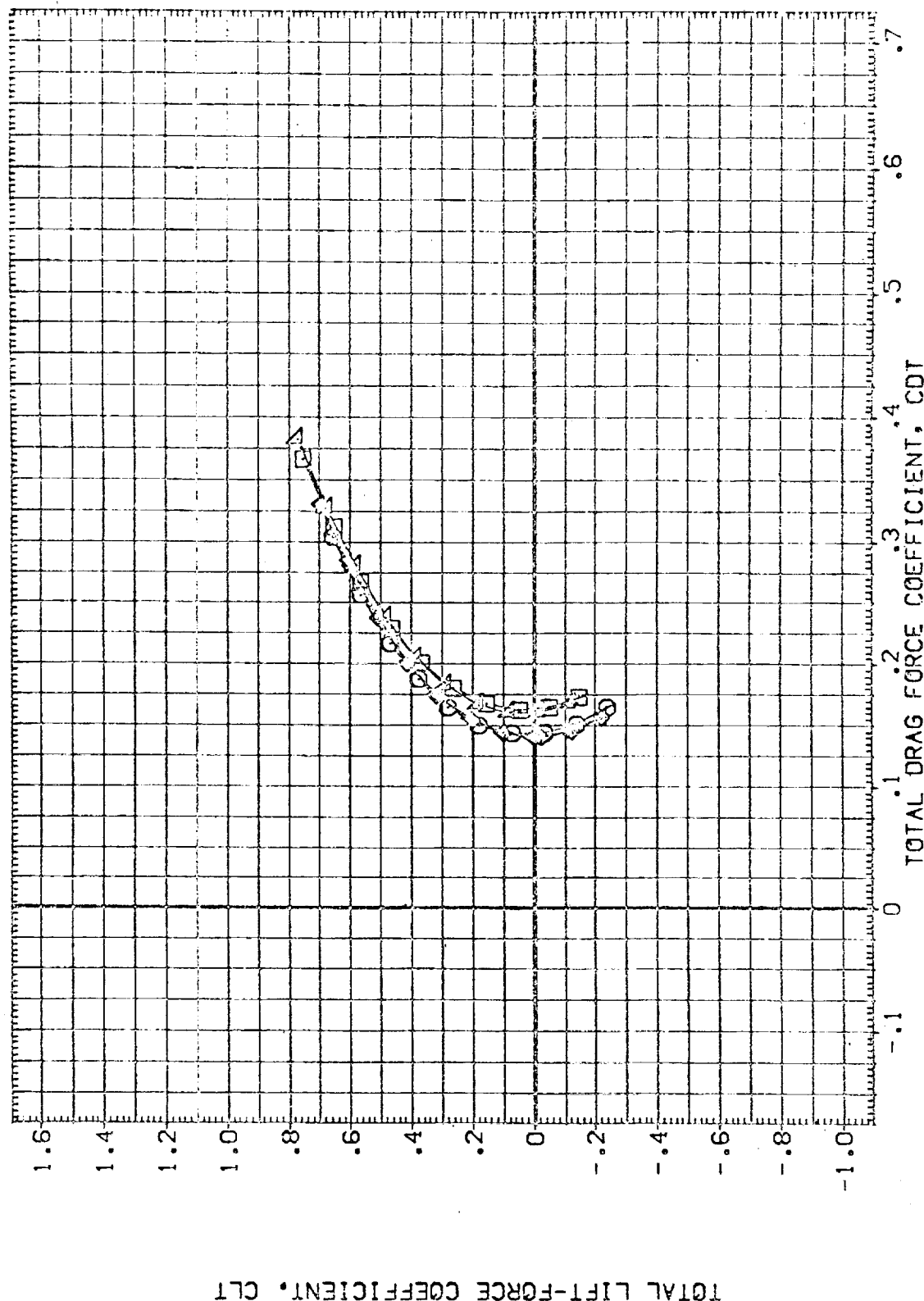


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ROFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6256 IN.
(GER013)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

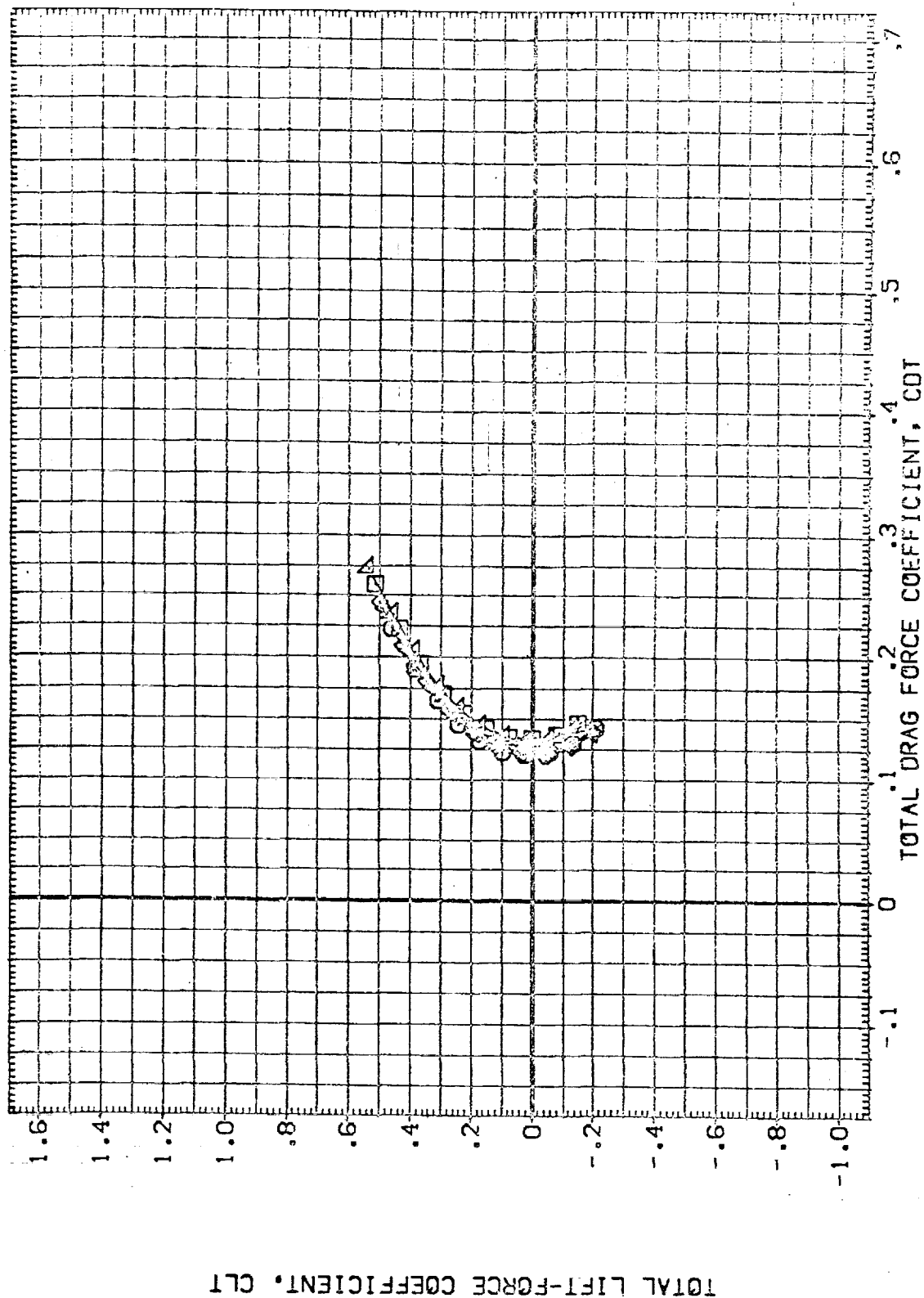


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DATA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

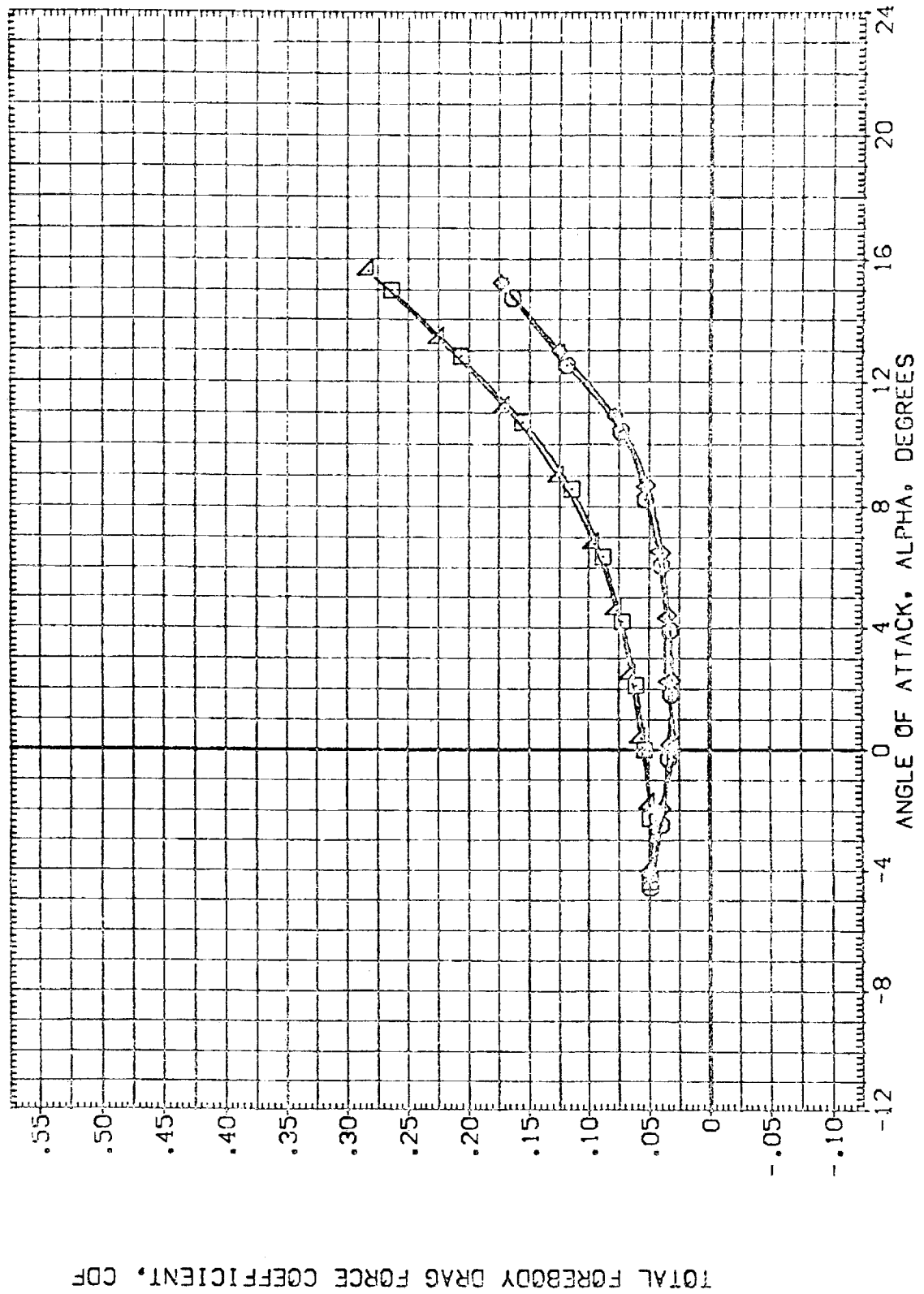


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

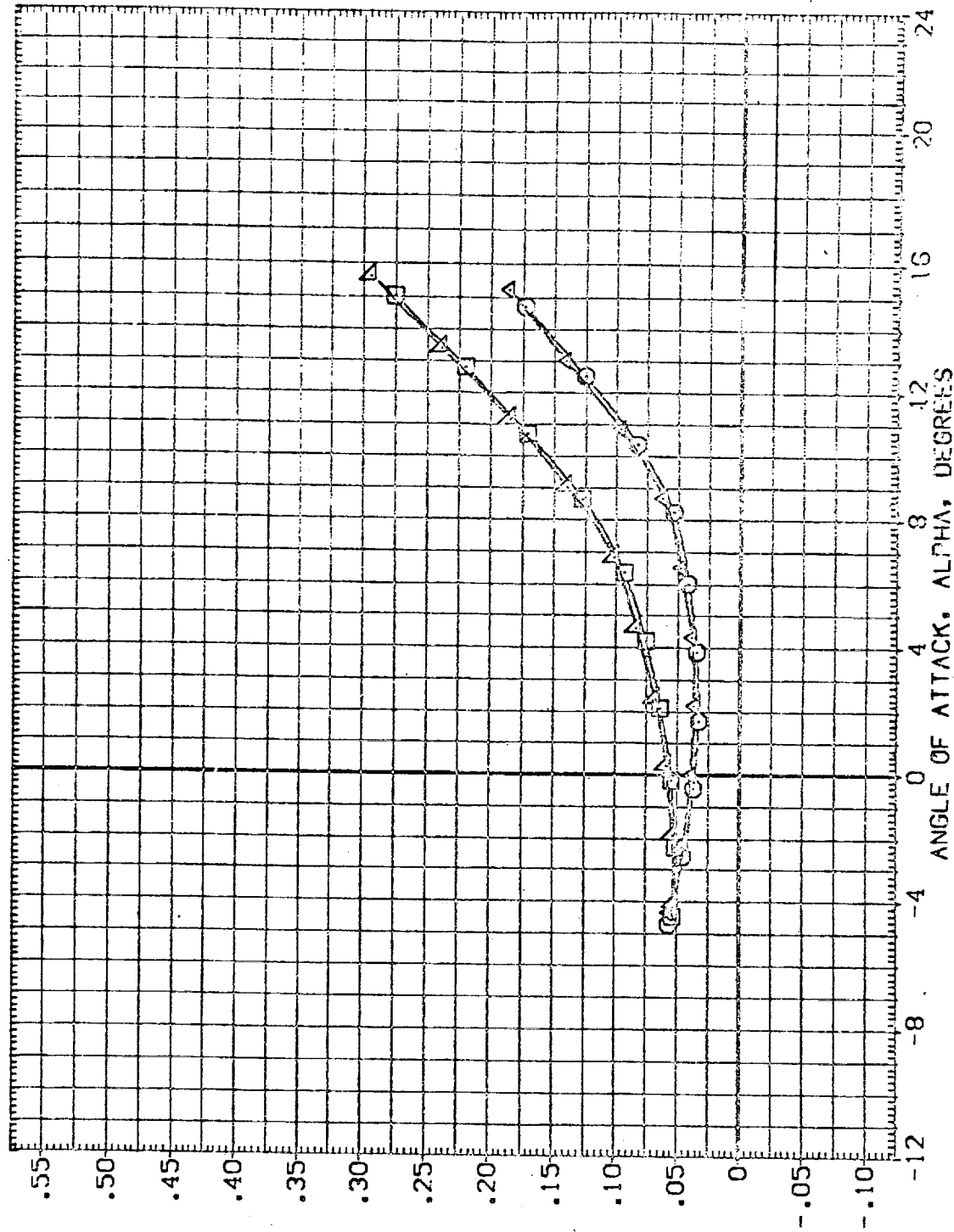


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    ARC 66-709 QAS9 0A11A-(N24 R5 V81)-STRUT+DUM STING

(GER003)    DATA NOT AVAILABLE

(GER009)    DATA NOT AVAILABLE

(GER012)    ARC 66-709 QAS9 0A11A-(R5 V81)-STRUT

(GER013)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

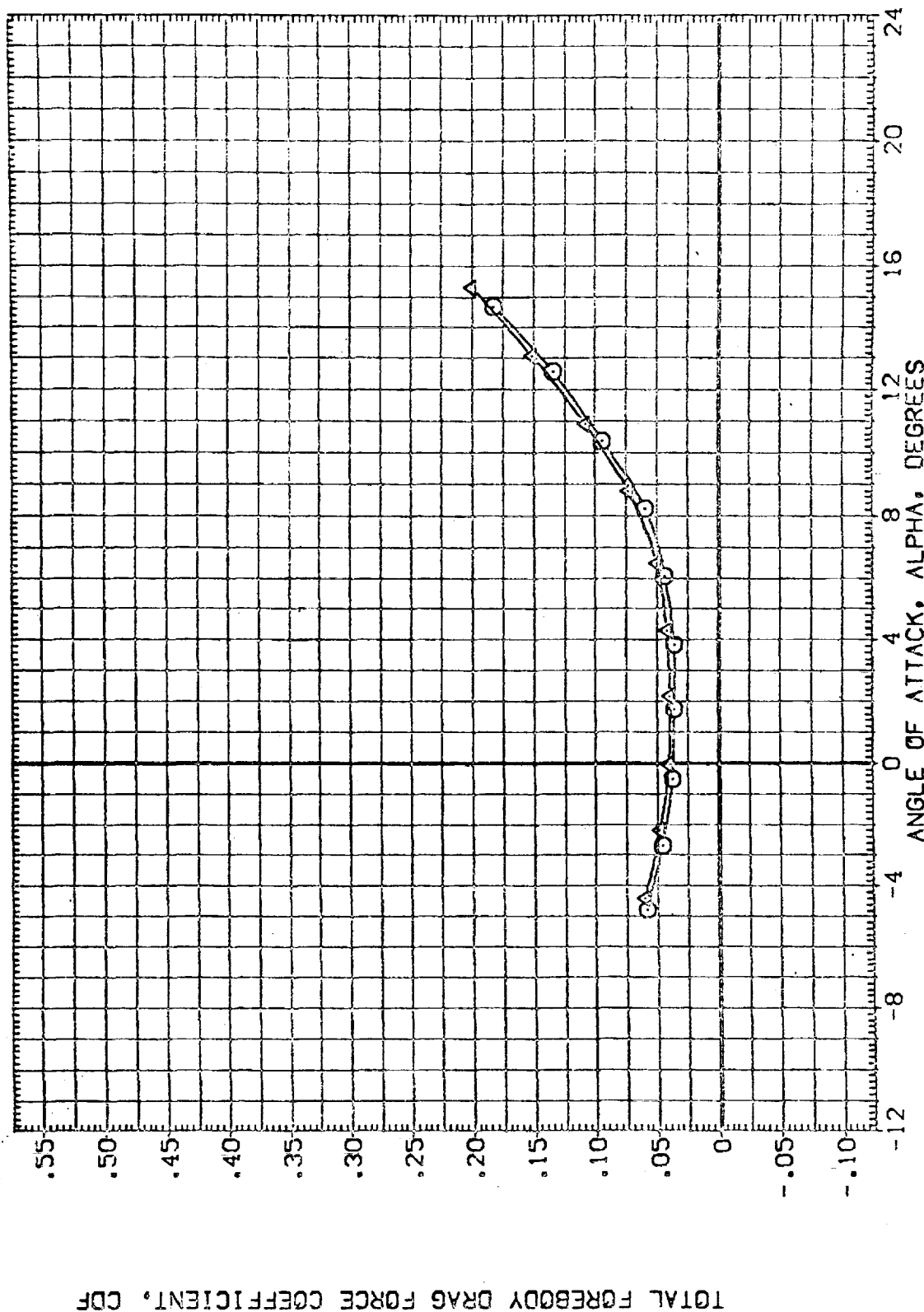


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT+DUM STING  
 (GER003) ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT+DUM STING  
 (GER009) ARC 66-709 0A59 0A11A-(N24 RS V81)\*STRUT  
 (GER012) ARC 66-709 0A59 0A11A-(RS V81)\*STRUT  
 (GER013) ARC 66-709 0A59 0A11A-(RS V81)\*STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 15.000 -11.700  
 .000 -11.700  
 .000 -11.700  
 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6755 IN.  
 ZMRP .0000 IN.  
 .3750 IN.  
 SCALE .0150

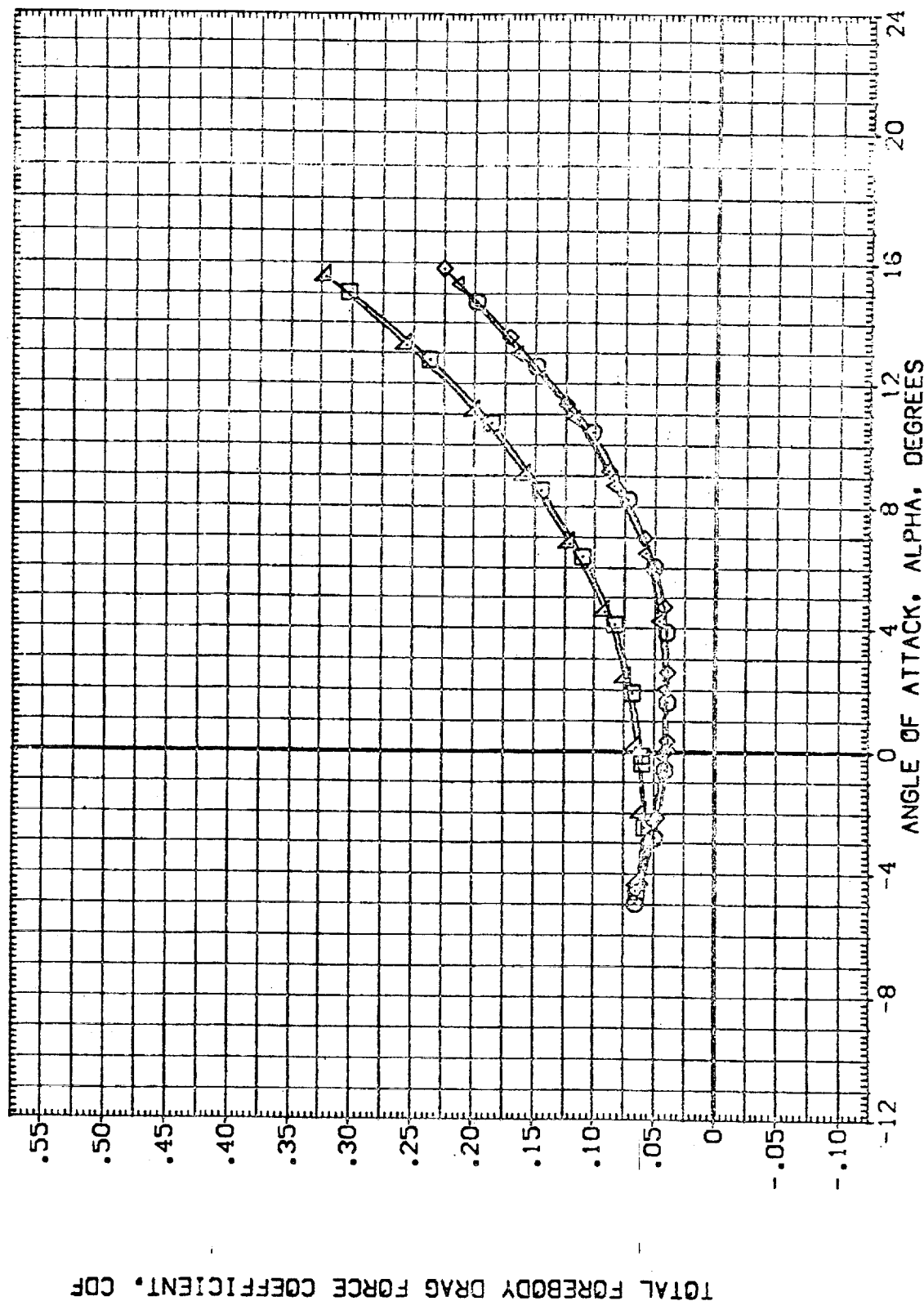


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BUFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SO.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

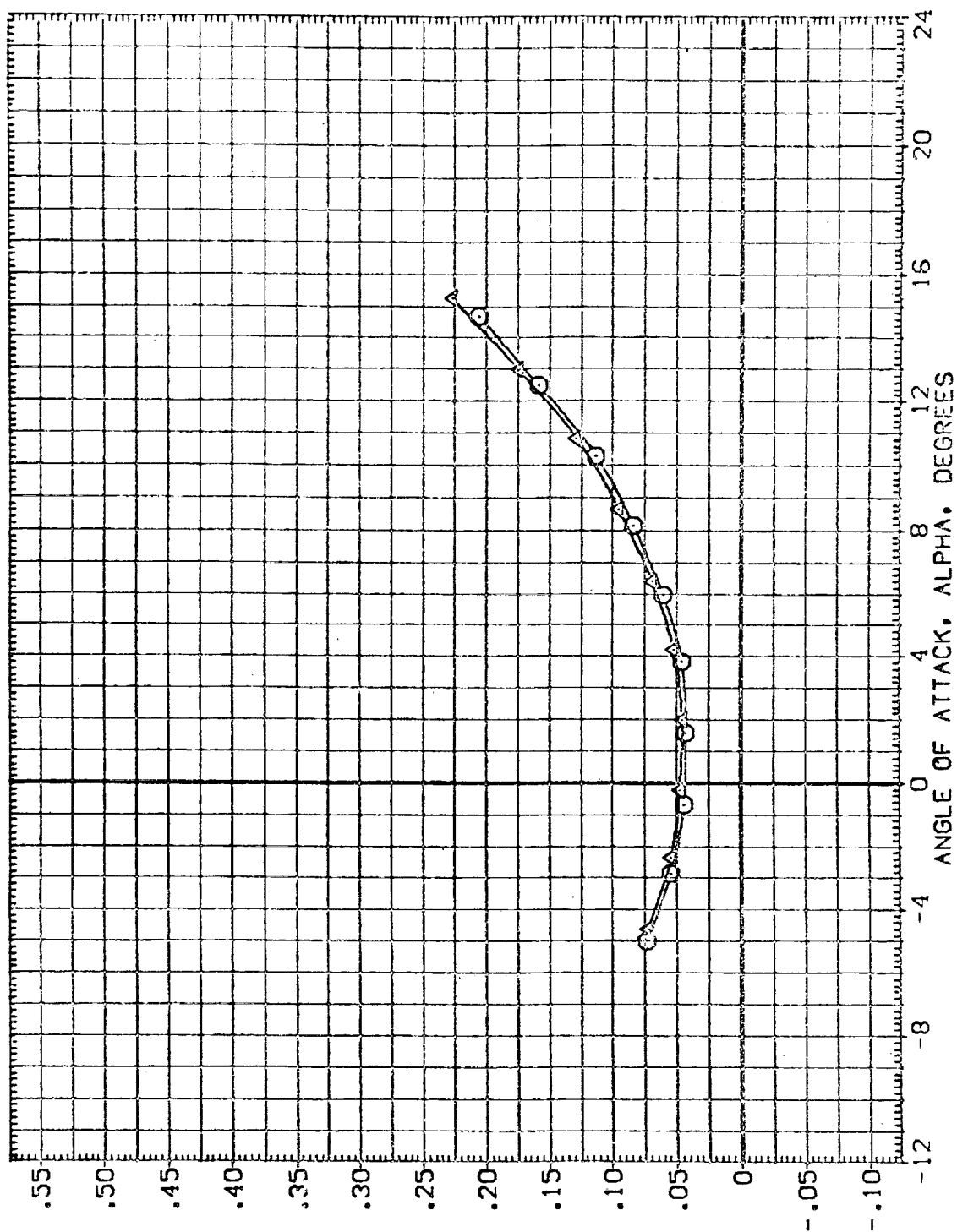


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

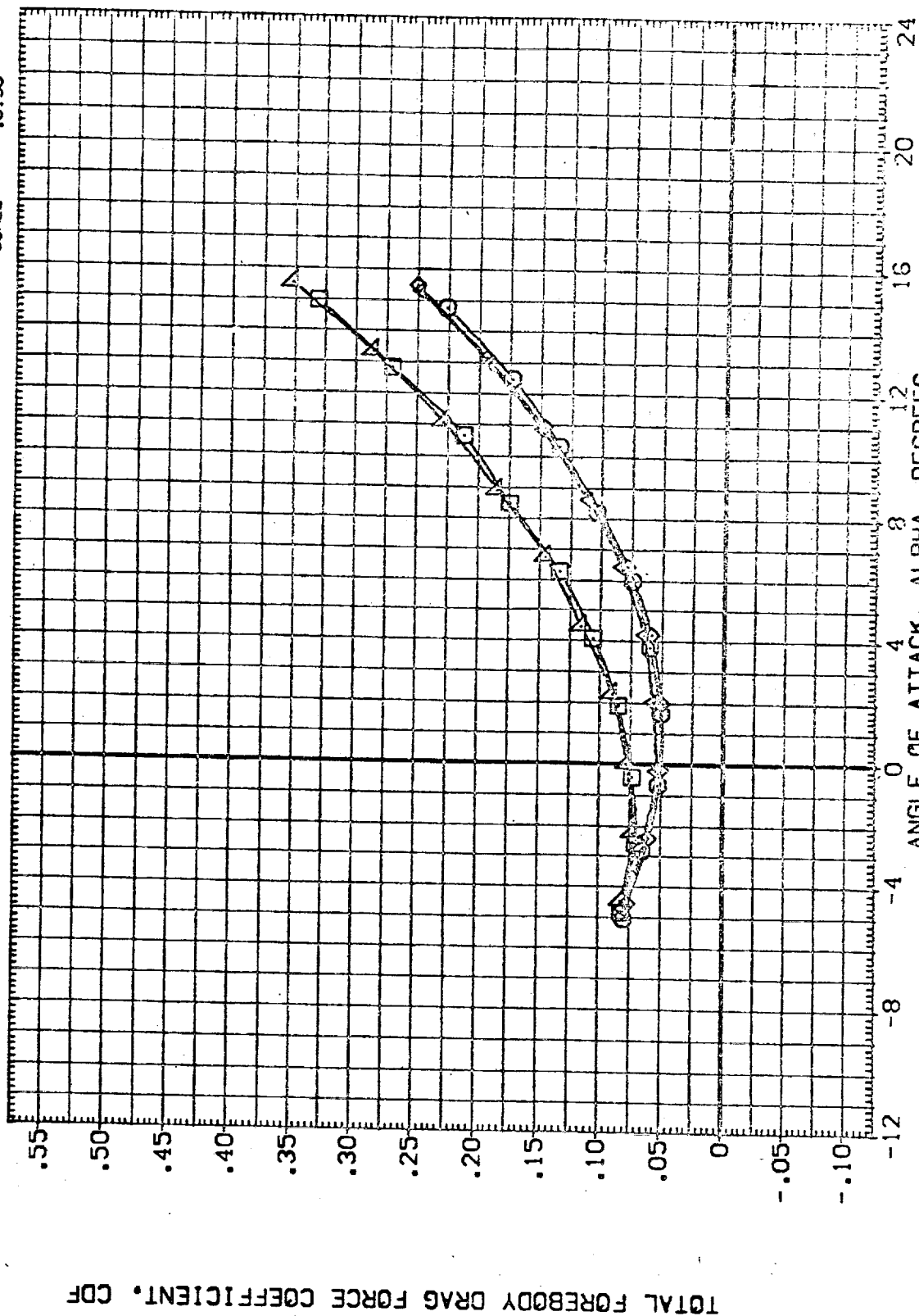
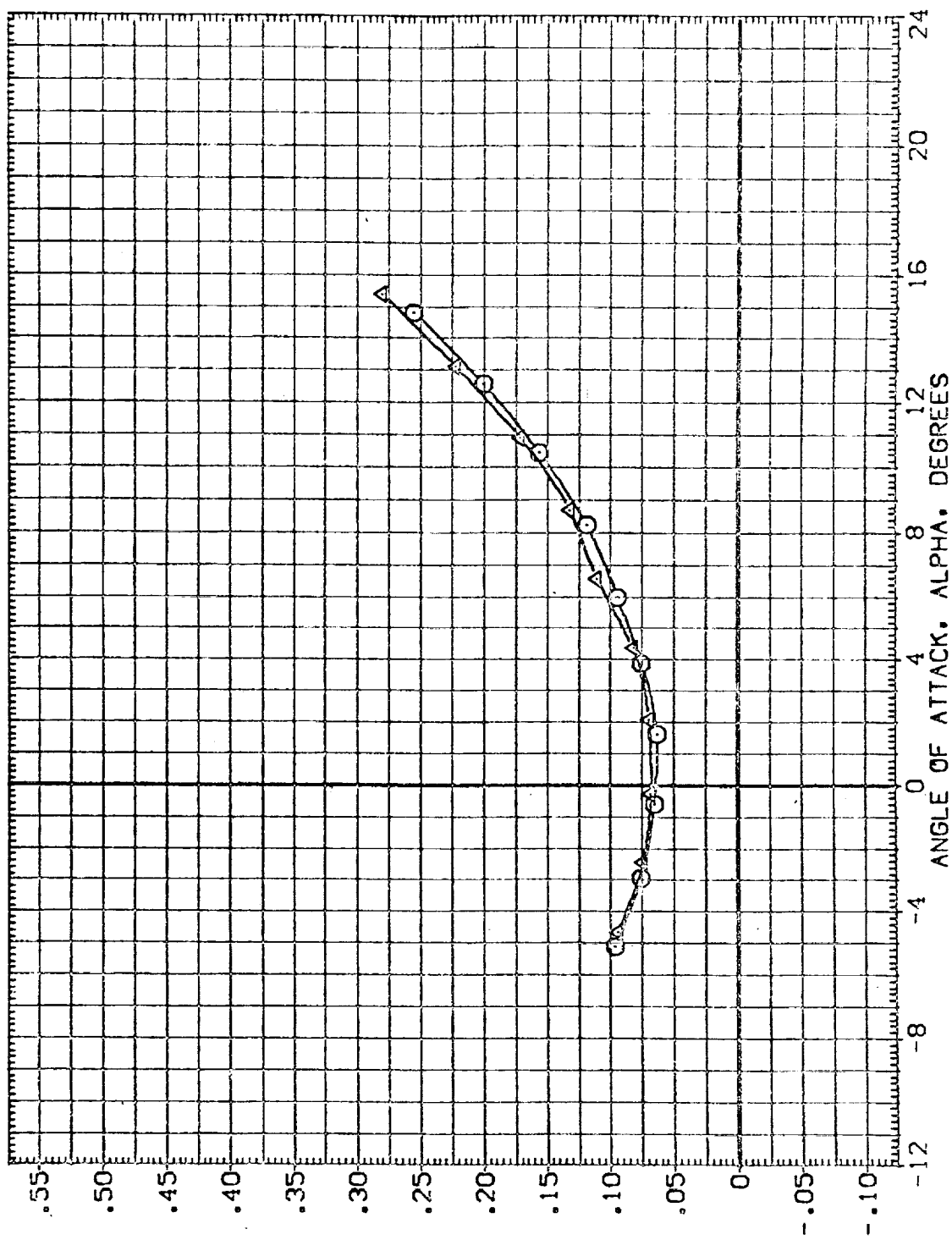


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 65-709 QAS9 QAL11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 65-709 QAS9 QAL11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

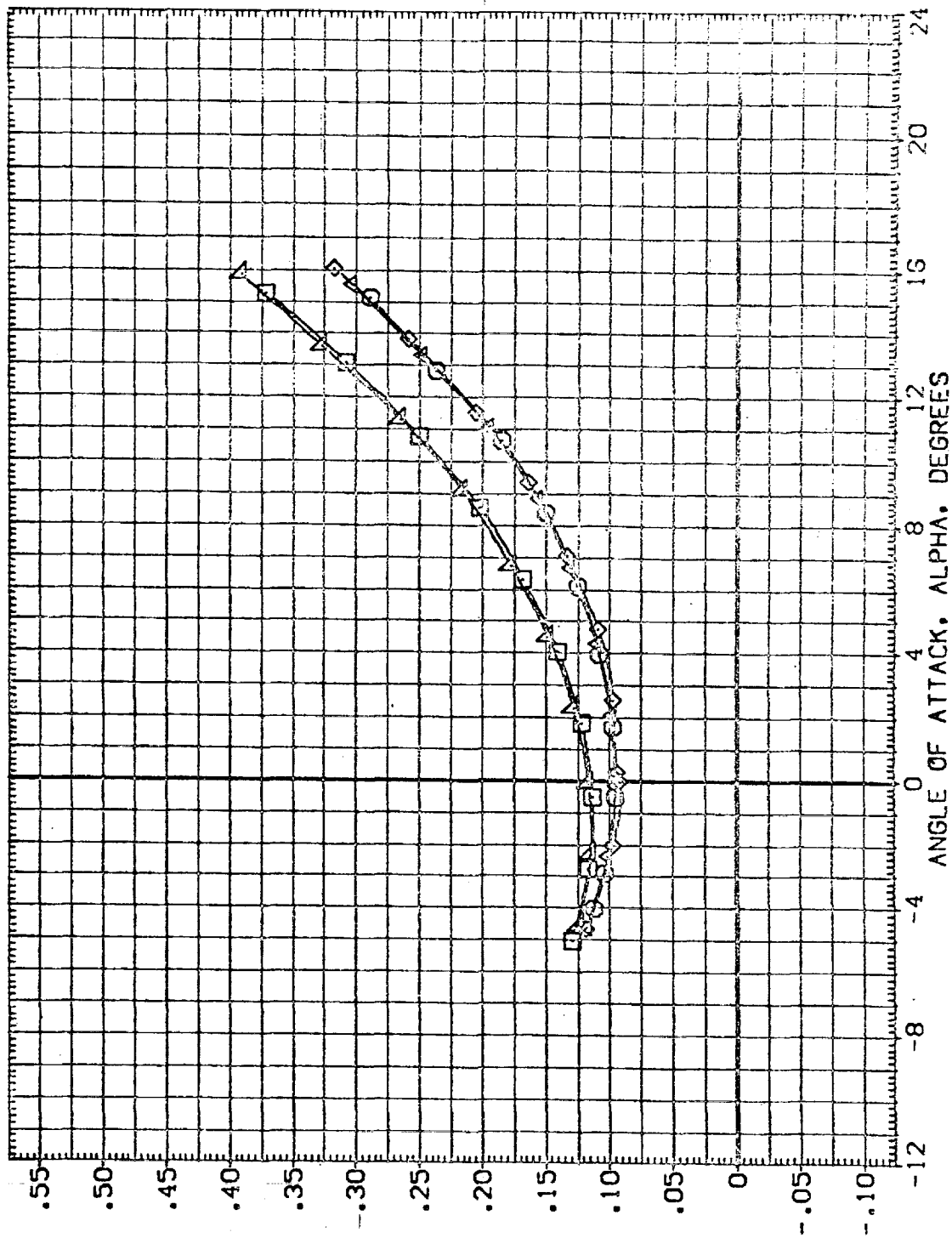


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    O    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING

(GER003)    X    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING

(GER009)    X    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT

(GER012)    X    ARC 66-709 0A59 0A11A-(RS V81)+STRUT

(GER013)    X    ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA    ELEVON    BOFLAP

.000    .000    -11.700

15.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

15.000    15.000    -11.700

REFERENCE INFORMATION

SREF    50.53    50. FT.

LREF    .5935    FT.

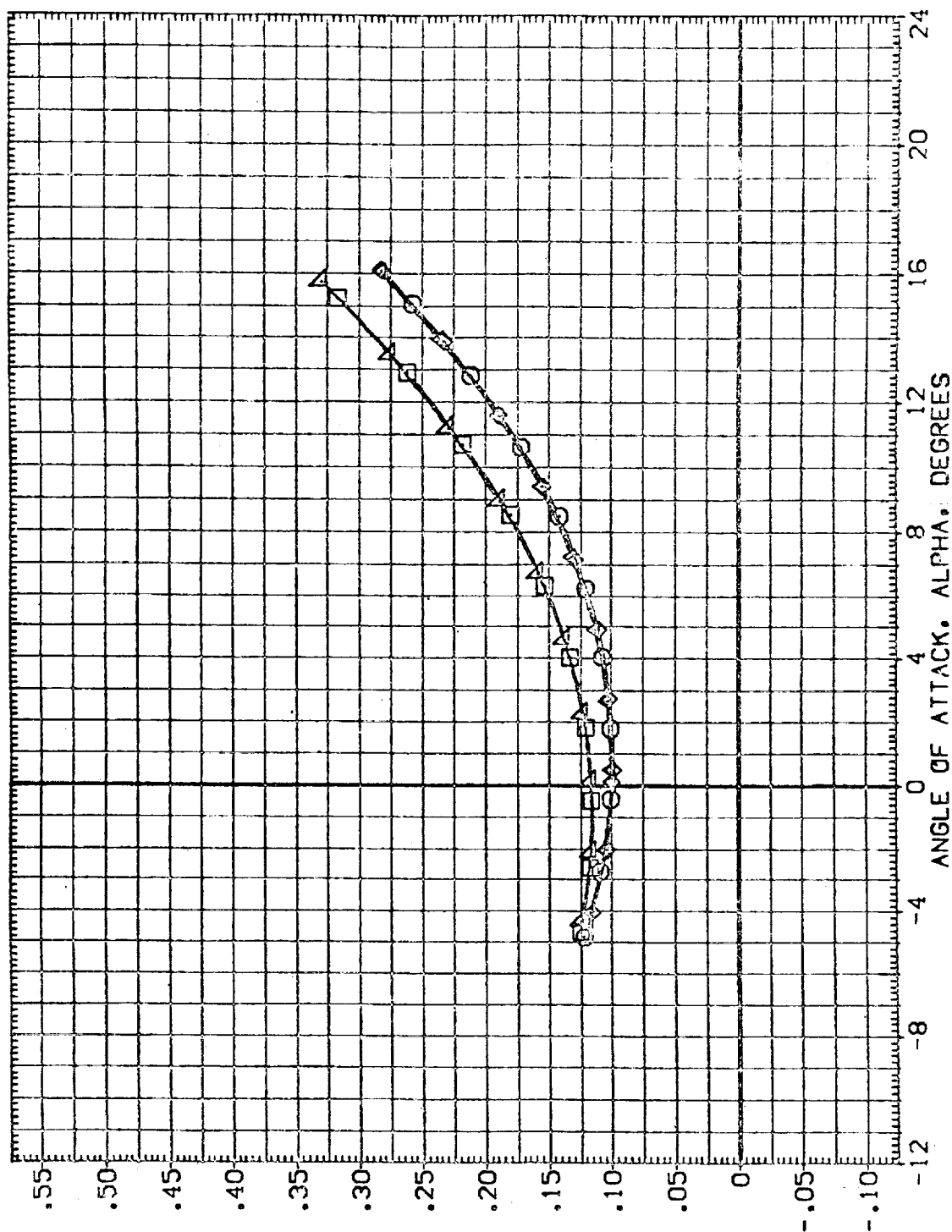
BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

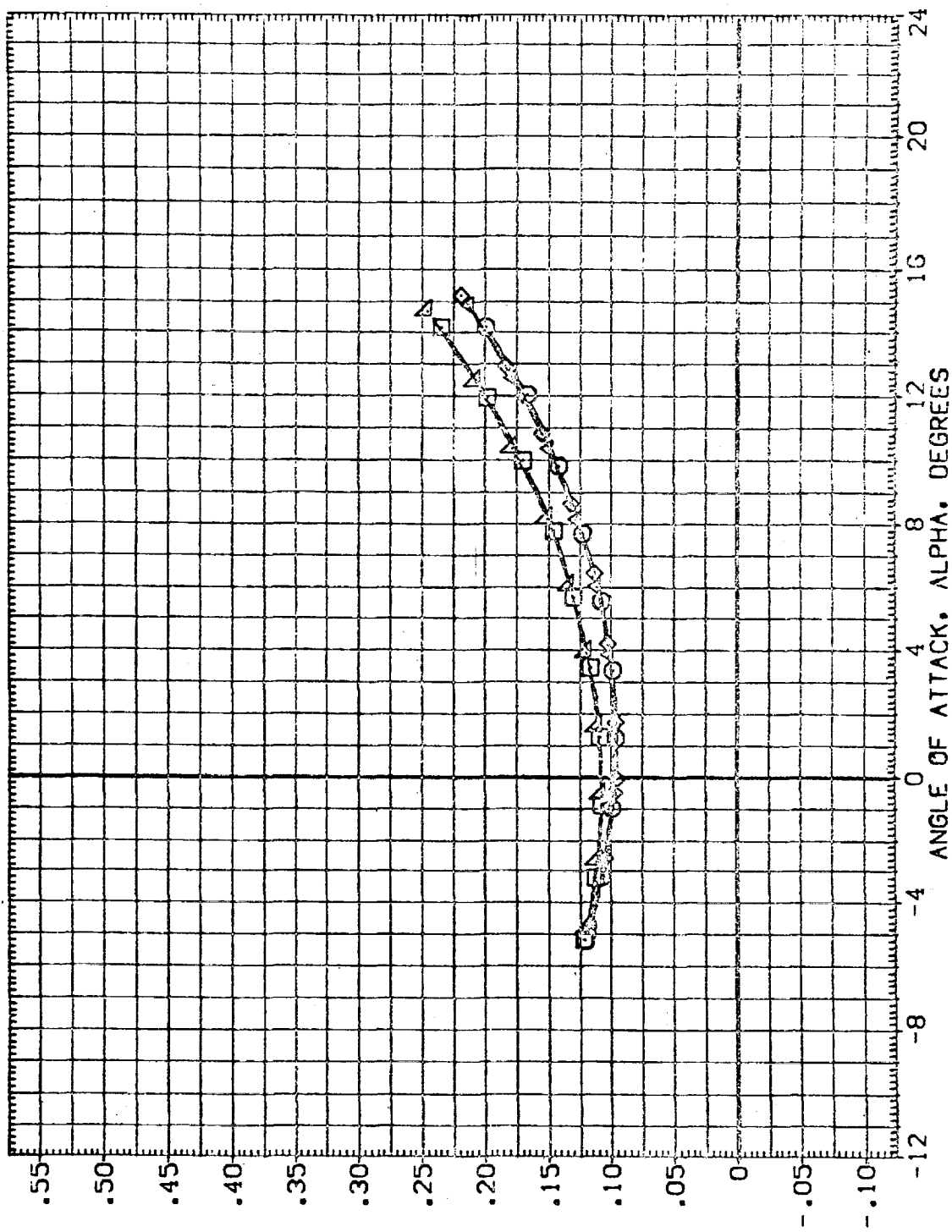


TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

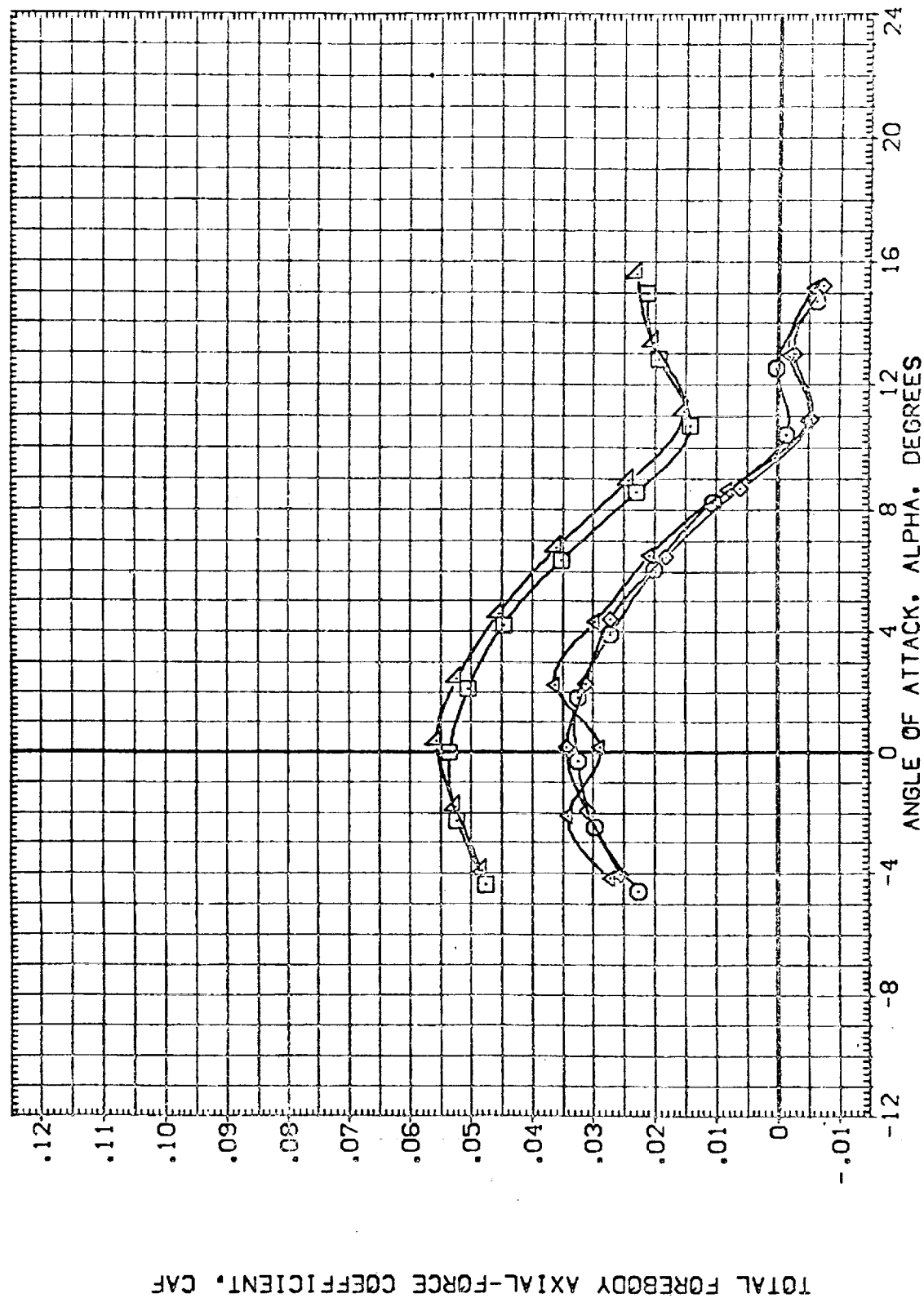


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

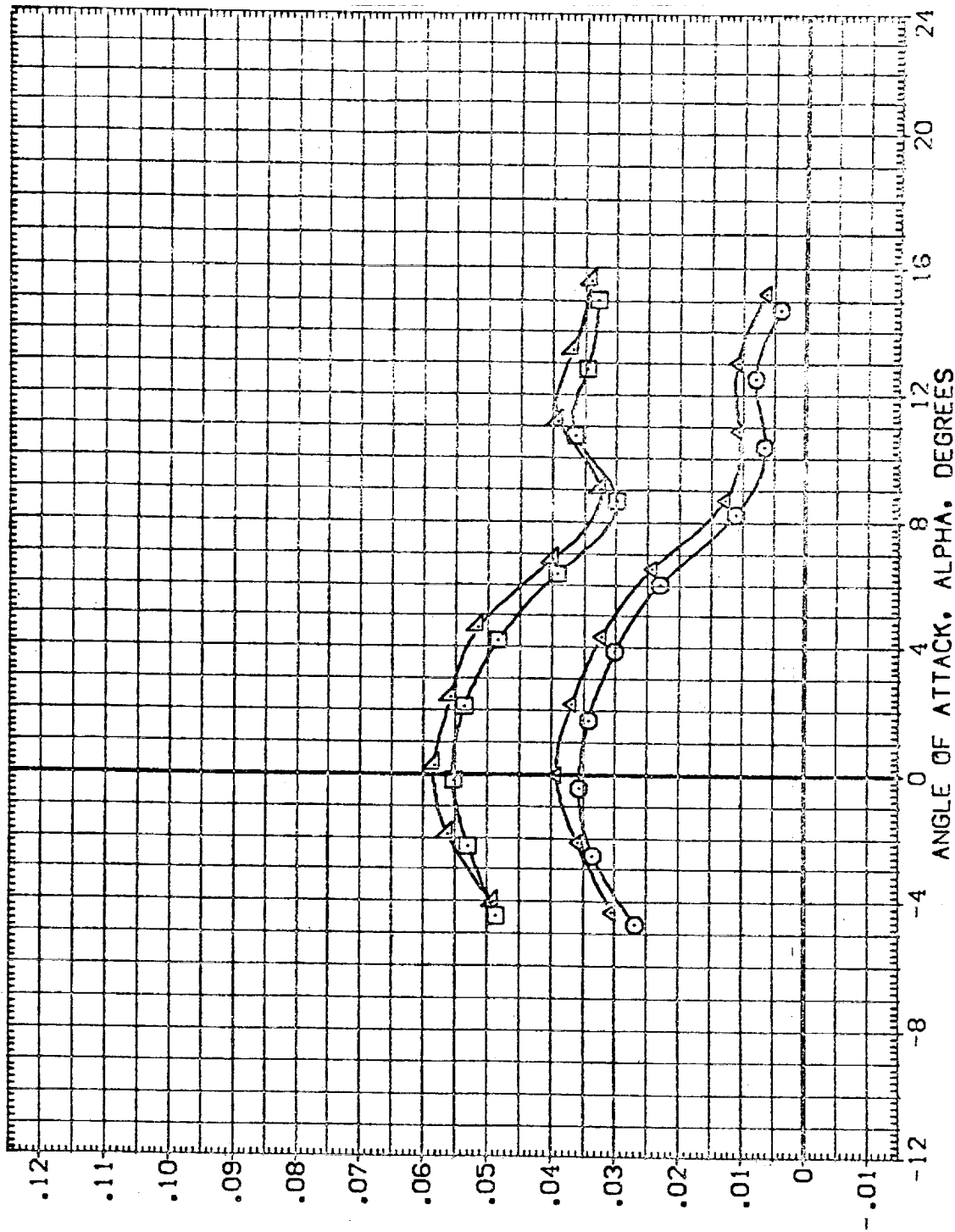
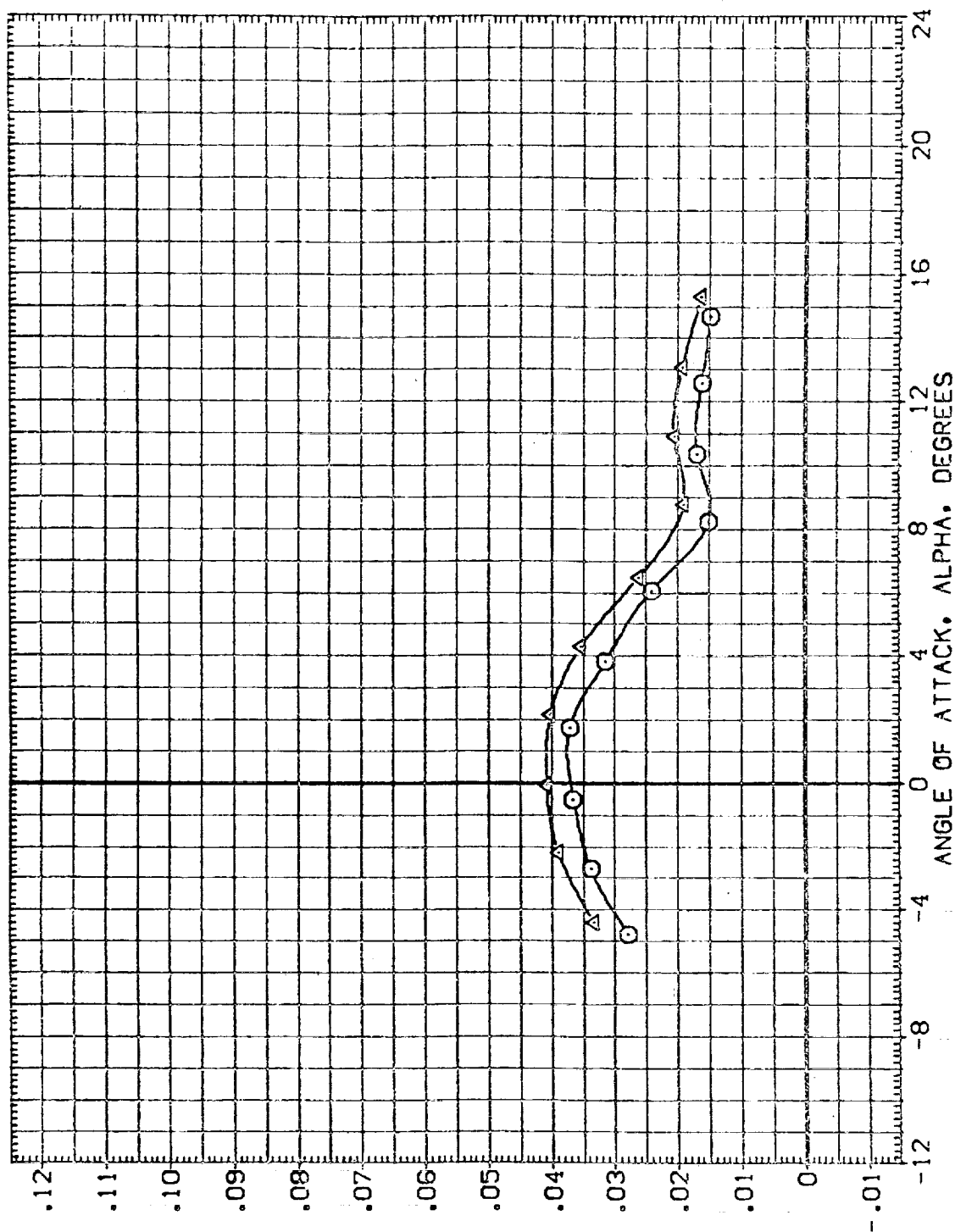


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 65-709 OAS9 OAI1A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50. FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 65-709 OAS9 OAI1A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, CAF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50 FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

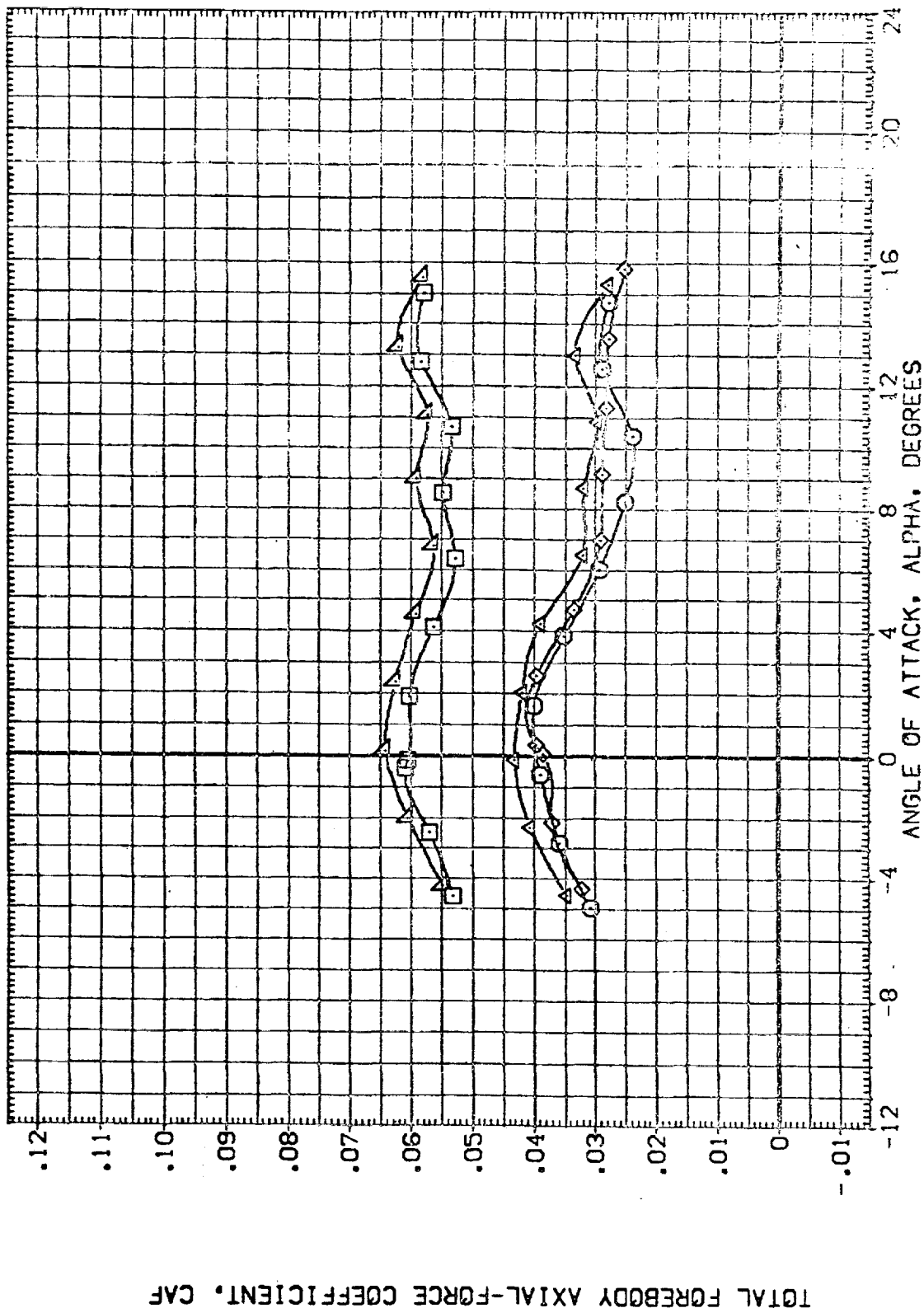


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STING

(GER003)    DATA NOT AVAILABLE

(GER009)    DATA NOT AVAILABLE

(GER012)    ARC 66-709 OAS9 0A11A-(RS V81)+STRUT

(GER013)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

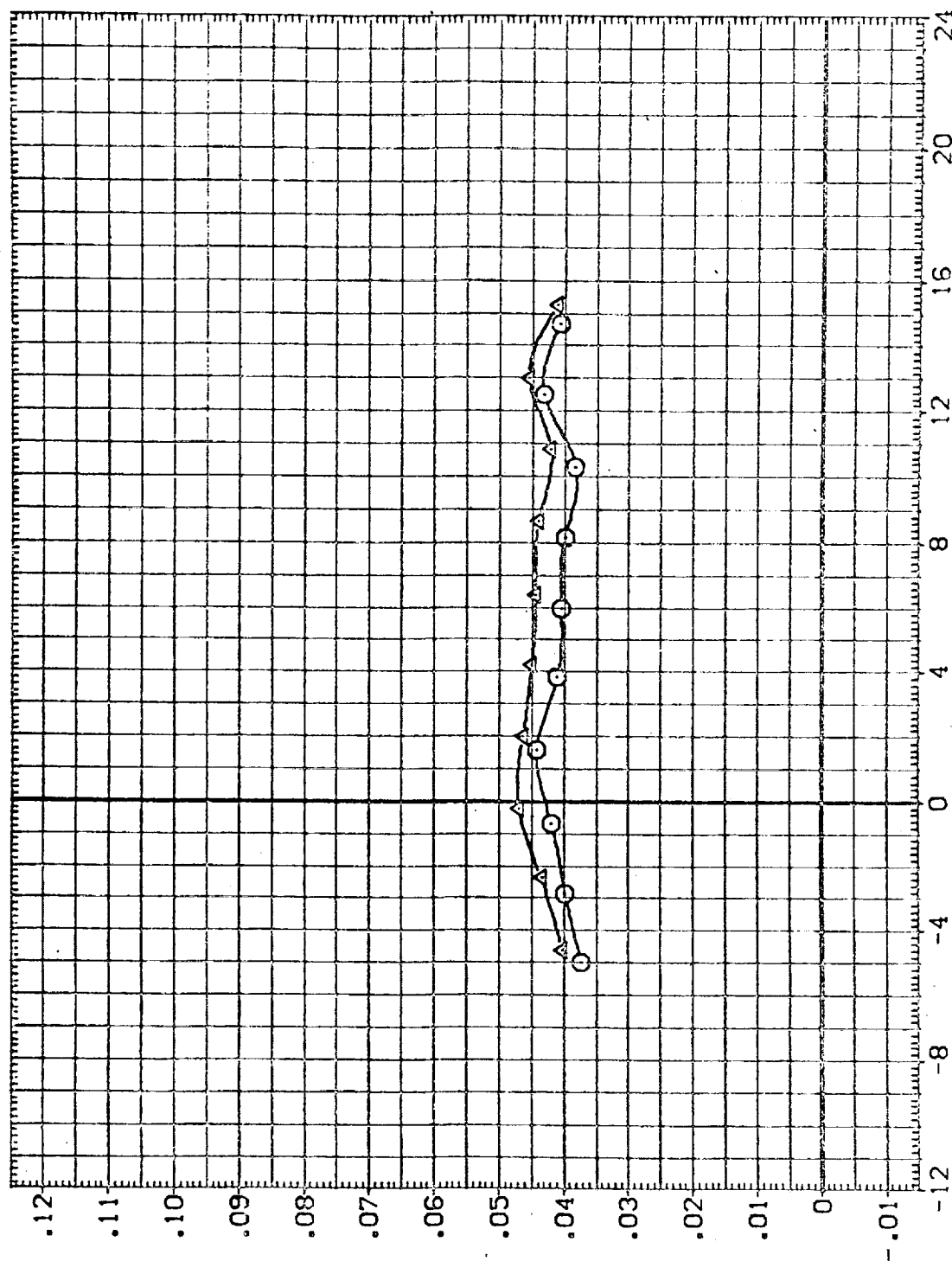


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.

SCALE .0150

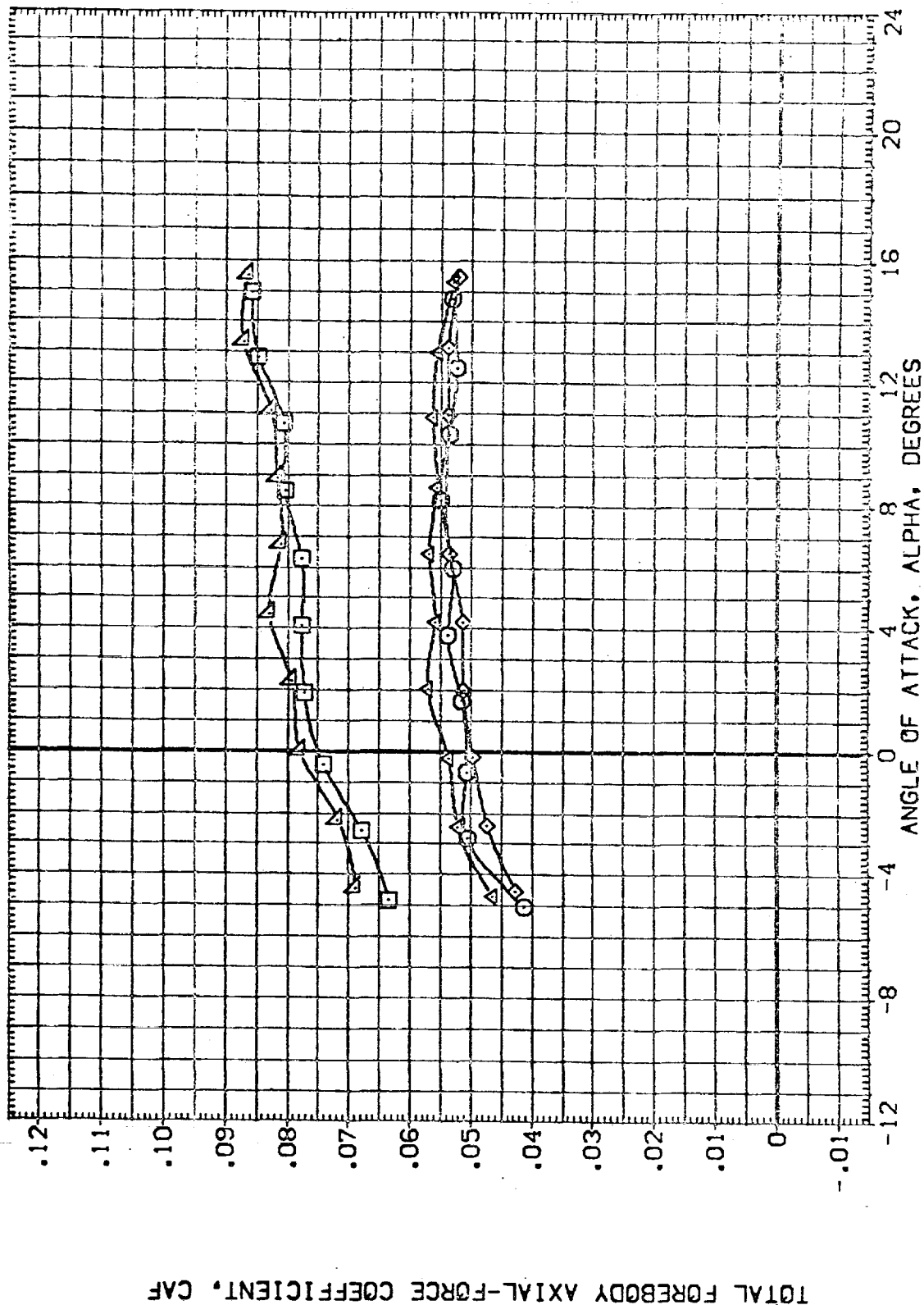


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



REFERENCE INFORMATION

SREF 6053 SQ.FT.  
 LREF 5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

BETA

ELEVON

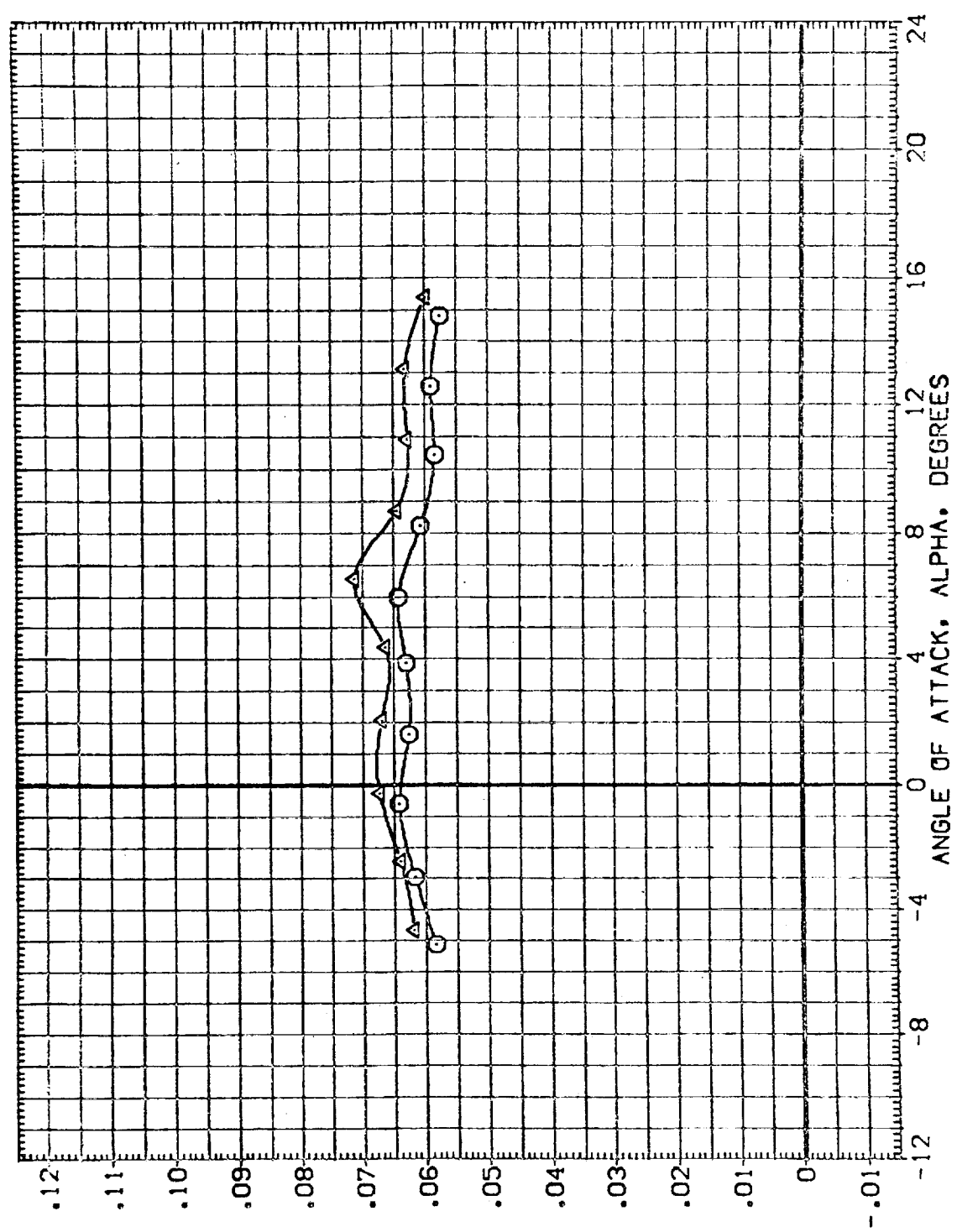
BOFLAP

.000 -11.700  
 .000 -11.700  
 .000 -11.700  
 .000 -11.700  
 .000 -11.700

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG  
 (GER003) DATA NOT AVAILABLE  
 (GER009) DATA NOT AVAILABLE  
 (GER012) ARC 66-709 QAS9 0A11A-(RS V81)+STRUT  
 (GER013) DATA NOT AVAILABLE



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, Cax

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF	.5053	50. FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF	.5935	59. FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF	1.1710	117.1 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP	12.6255	1262.55 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP	-.3750	-37.5 IN.
					SCALE	.0150	

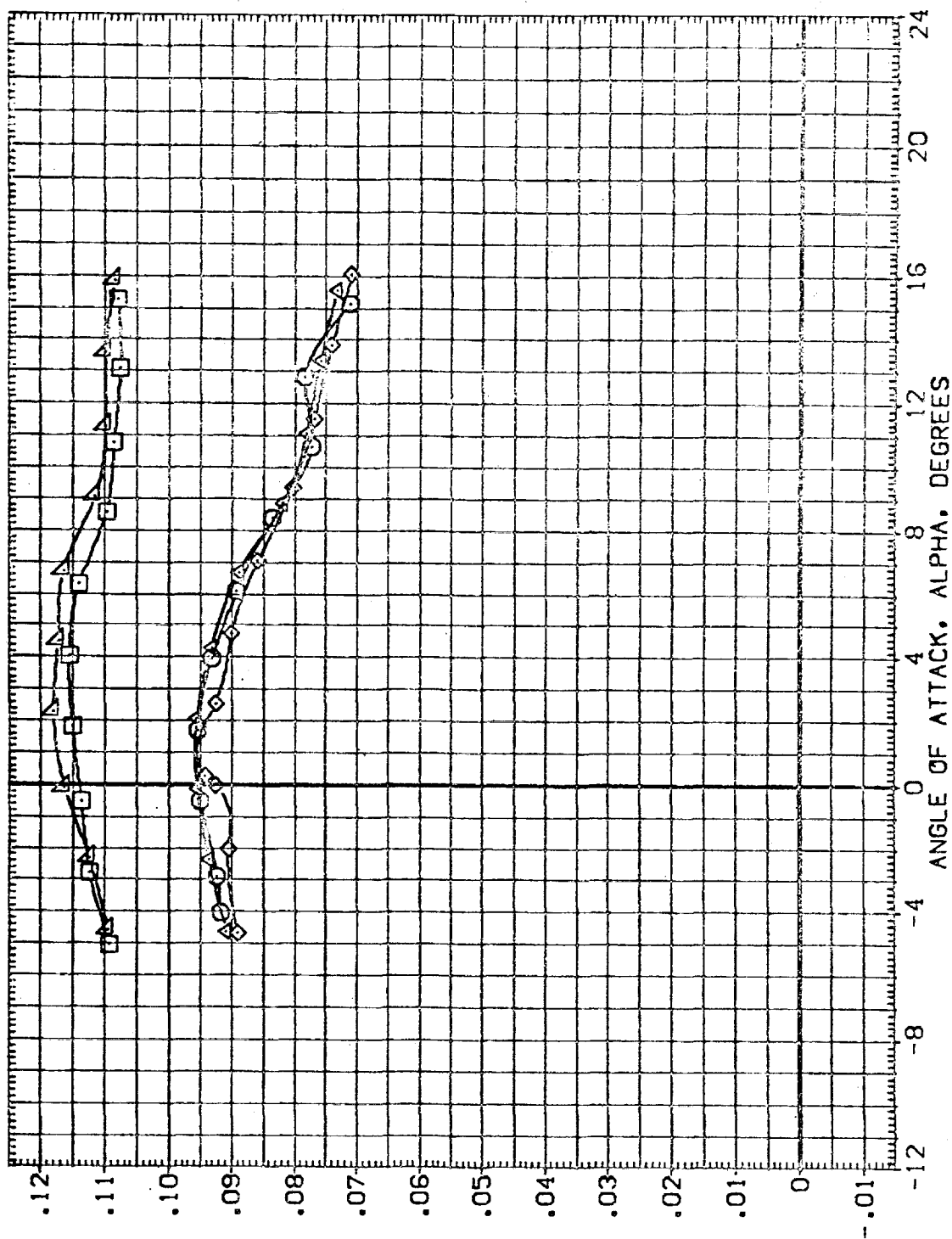


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 Q111A-(N24 RS V81)-STRUT+OJM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 QAS9 Q111A-(N24 RS V81)-STRUT+OJM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QAS9 Q111A-(N24 RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 Q111A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QAS9 Q111A-(RS V81)-STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

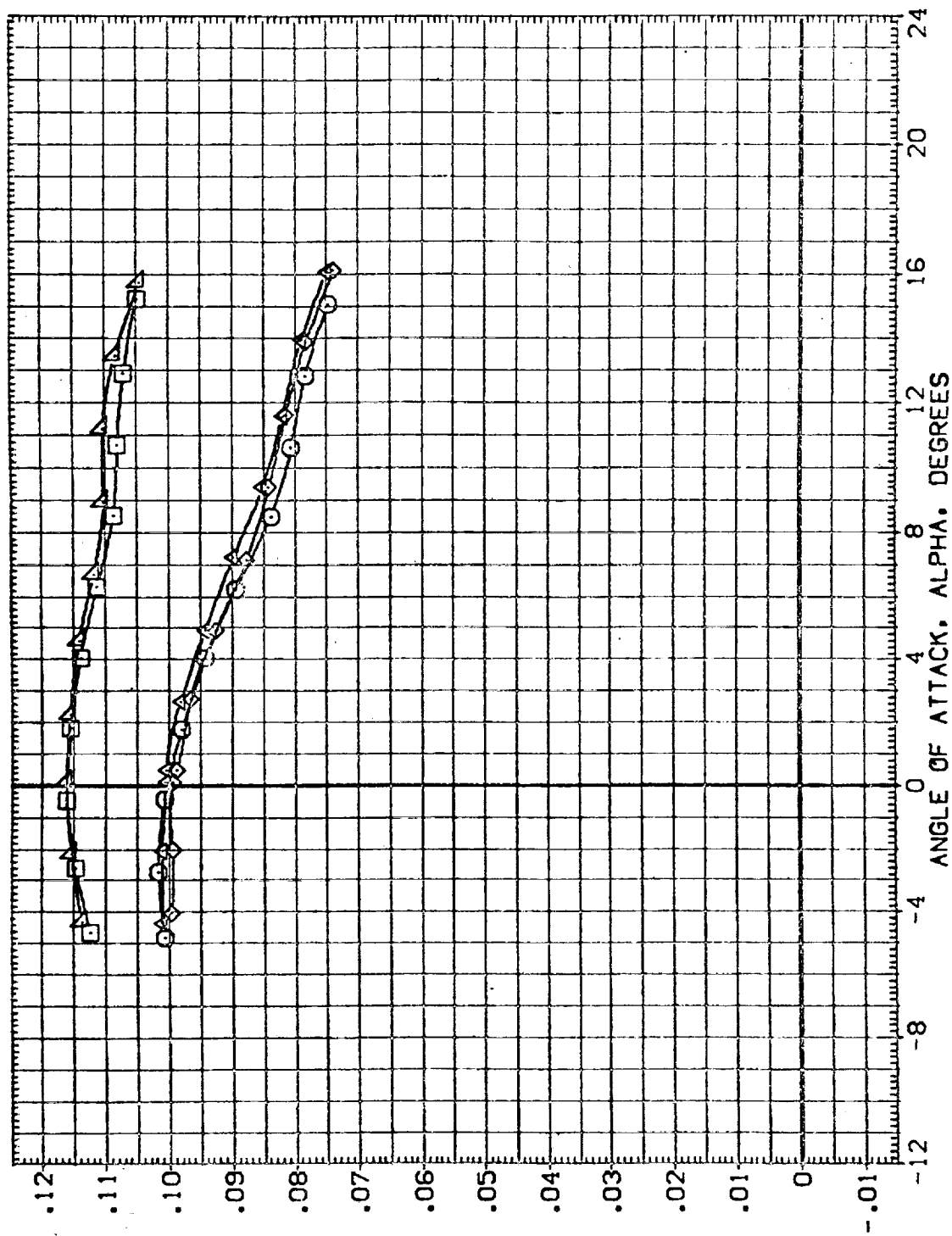


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

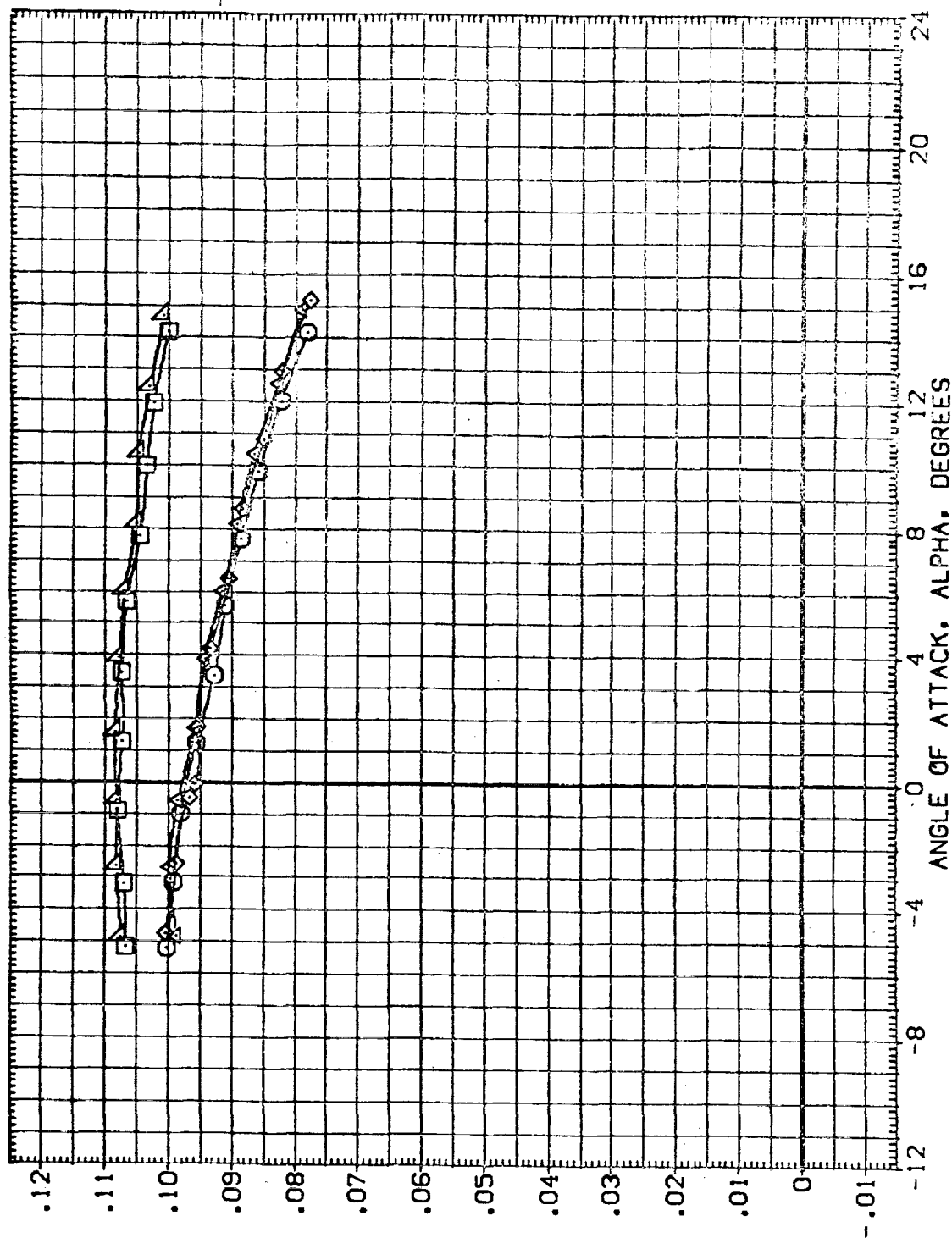


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

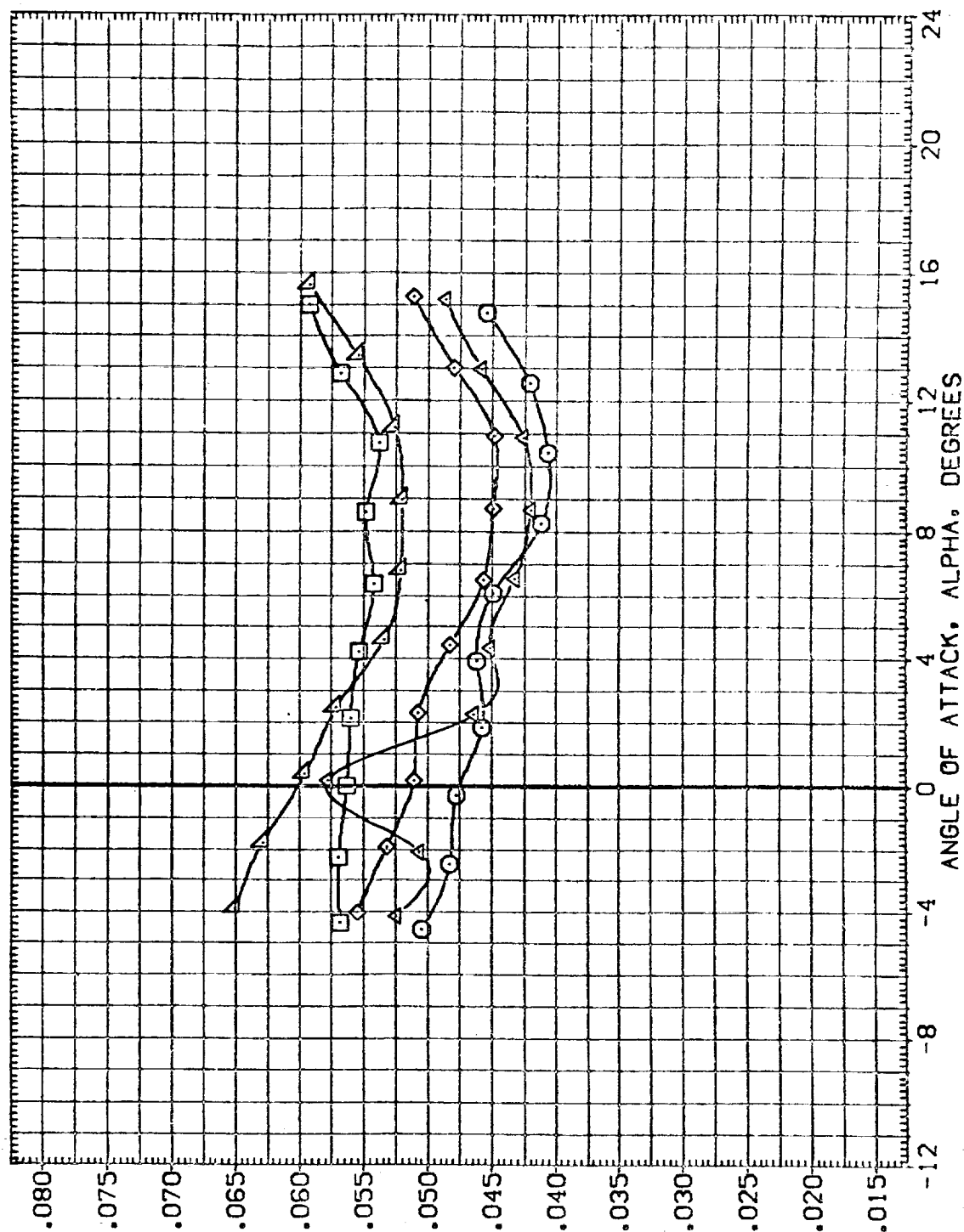


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DASS 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 DASS 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DASS 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 DASS 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

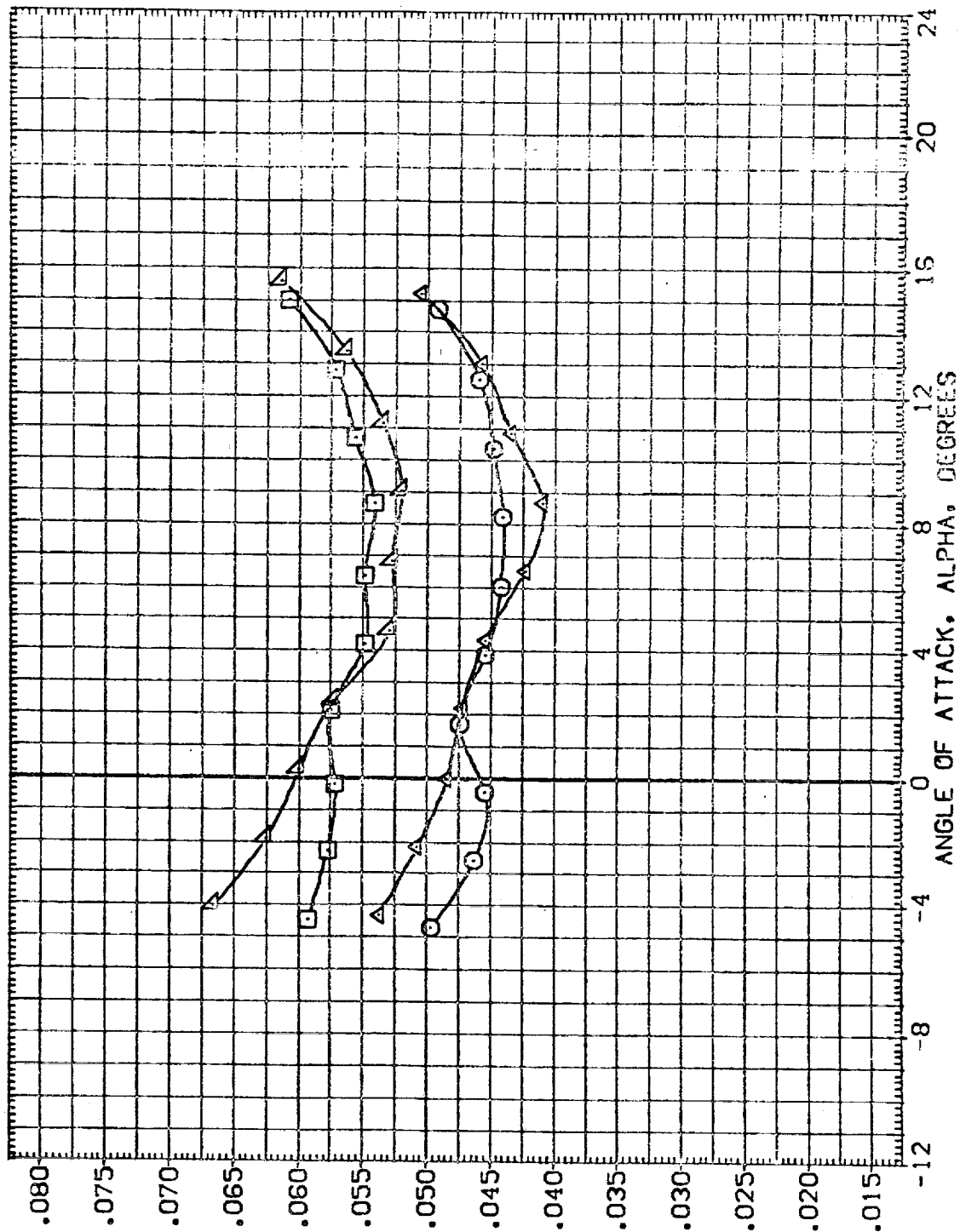


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 65-709 OAS9 0A11A-(N24 RS V81)+STRUT+OUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 65-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

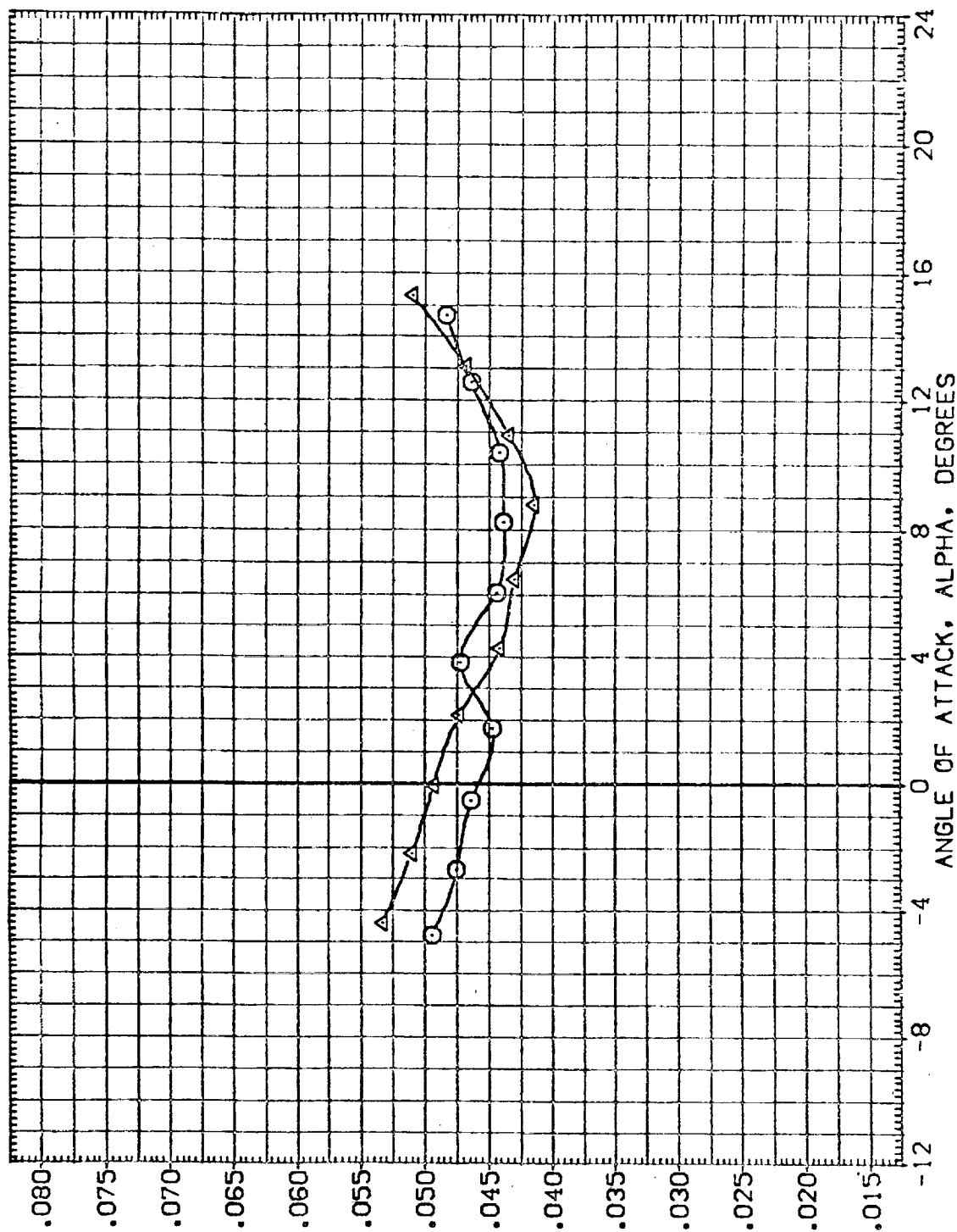


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF 6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	LREF 5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

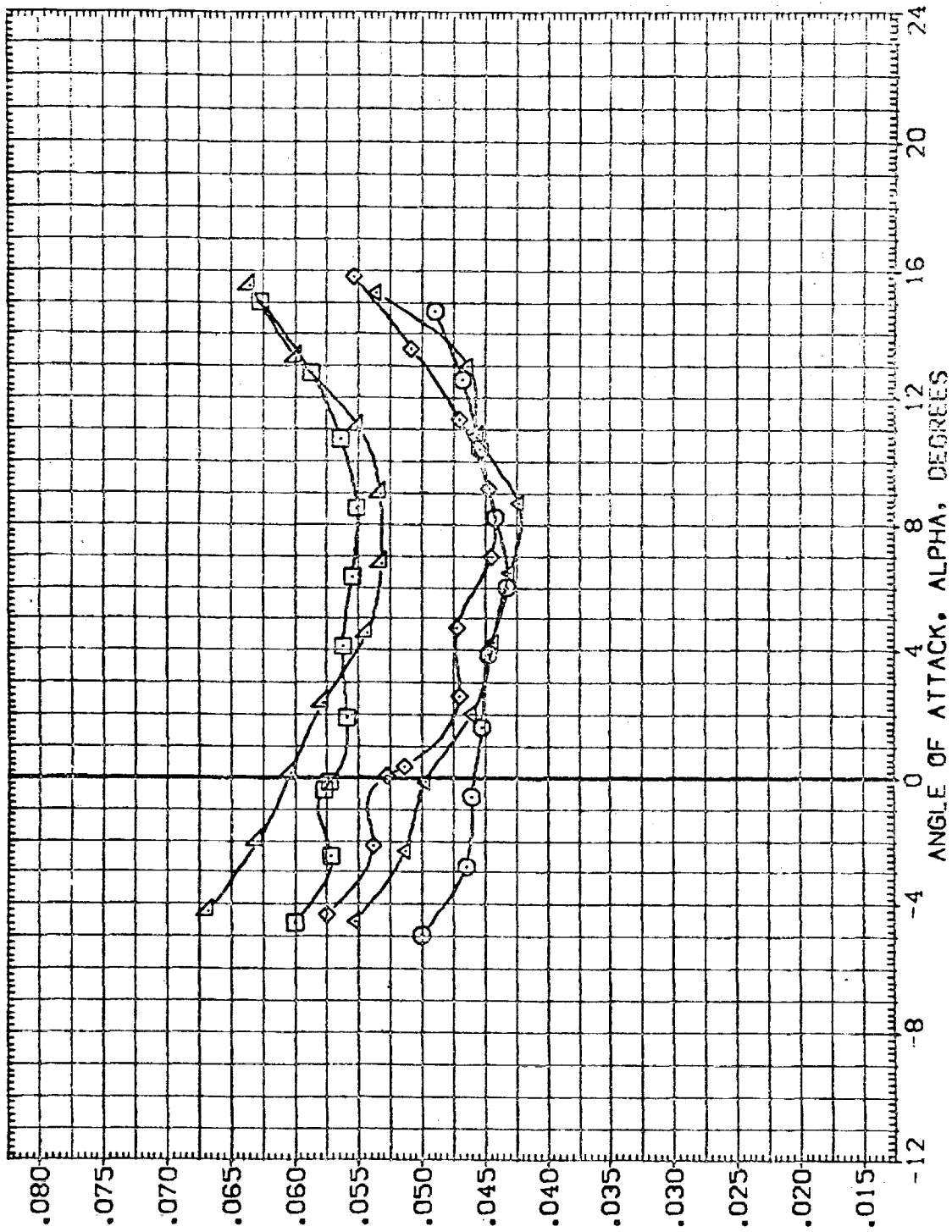


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)    ARC 66-709 CAS9 0A11A-(N24 RS V8)\*STRUT+DLM STNG    .000    .000    -11.700    SREF    .6053    50.FT.

(GER003)    DATA NOT AVAILABLE    .000    .000    -11.700    LREF    .5935    FT.

(GER009)    DATA NOT AVAILABLE    .000    .000    -11.700    BREF    1.1710    IN.

(GER012)    ARC 66-709 CAS9 0A11A-(RS V8)\*STRUT    .000    .000    -11.700    XMRP    12.6255    IN.

(GER013)    DATA NOT AVAILABLE    .000    15.000    -11.700    YMRP    .0000    IN.

SCALE    .0150

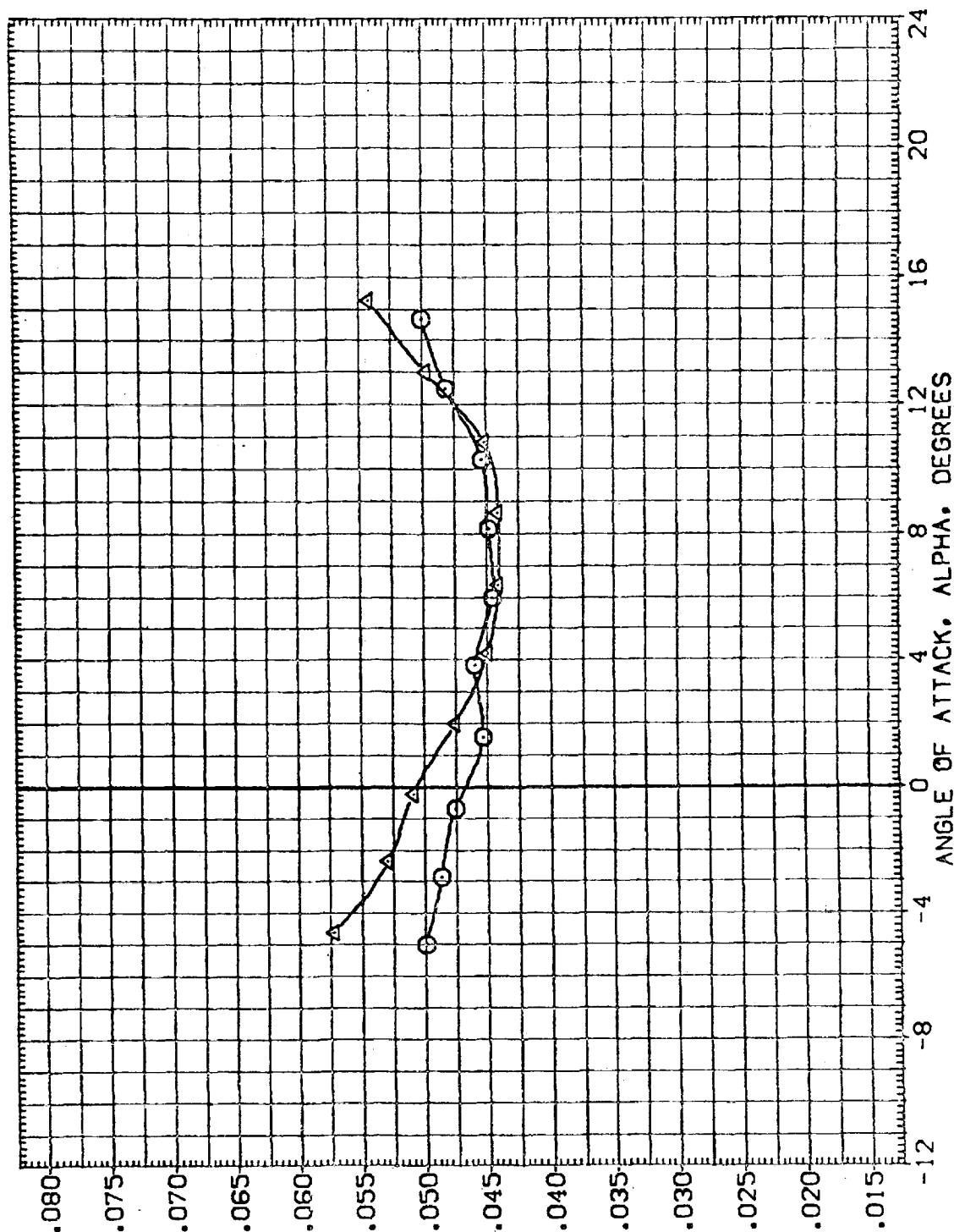


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDF LAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+QUM SING	.000	.000	-11.700	SREF .6053 50.FT.
[GER003]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+QUM SING	.000	15.000	-11.700	LREF .5935 FT.
[GER009]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER013]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

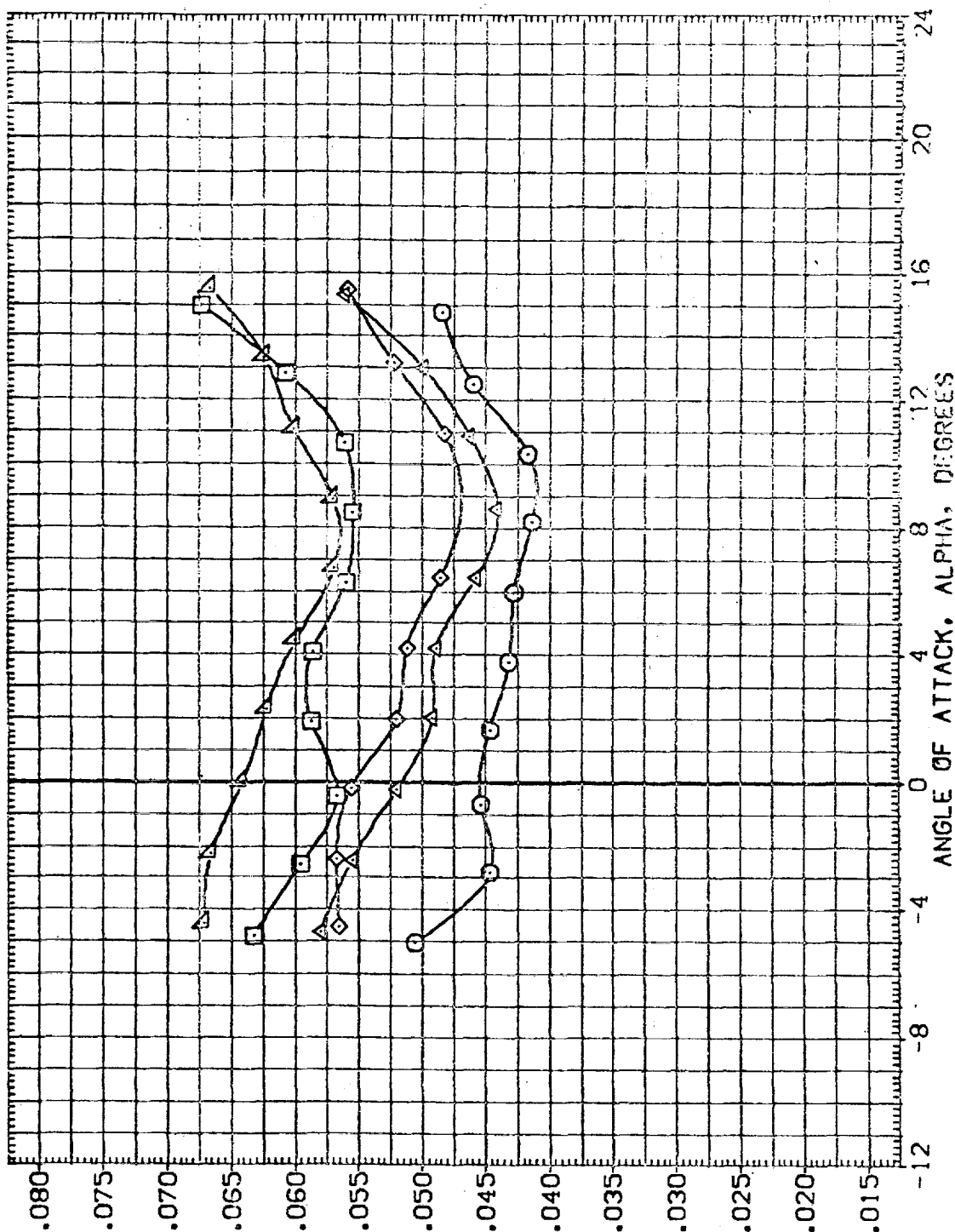


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)    ARC 66-709 D459 D111A-(N24 R5 V0)+STRUT+DUM STING    .000    .000    -11.700    SREF    .6053    SQ.FT.

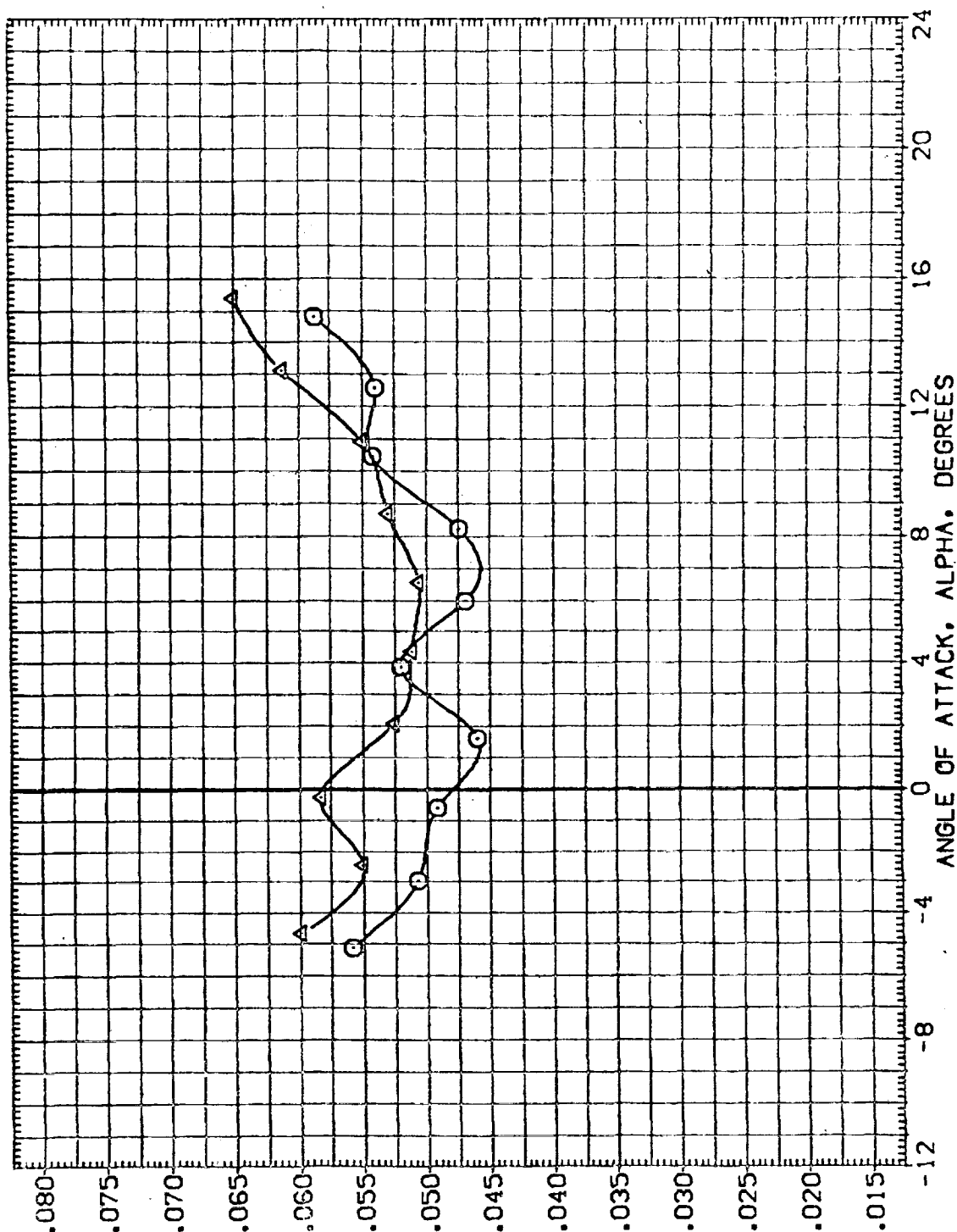
(GER003)    DATA NOT AVAILABLE    .000    15.000    -11.700    LREF    .5935    FT.

(GER009)    DATA NOT AVAILABLE    .000    .000    -11.700    BREF    1.1710    IN.

(GER012)    ARC 66-709 D459 D111A-(R5 V8)+STRUT    .000    .000    -11.700    XMRP    12.6255    IN.

(GER013)    DATA NOT AVAILABLE    .000    15.000    -11.700    YMRP    .0000    IN.

SCALE    .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF 5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

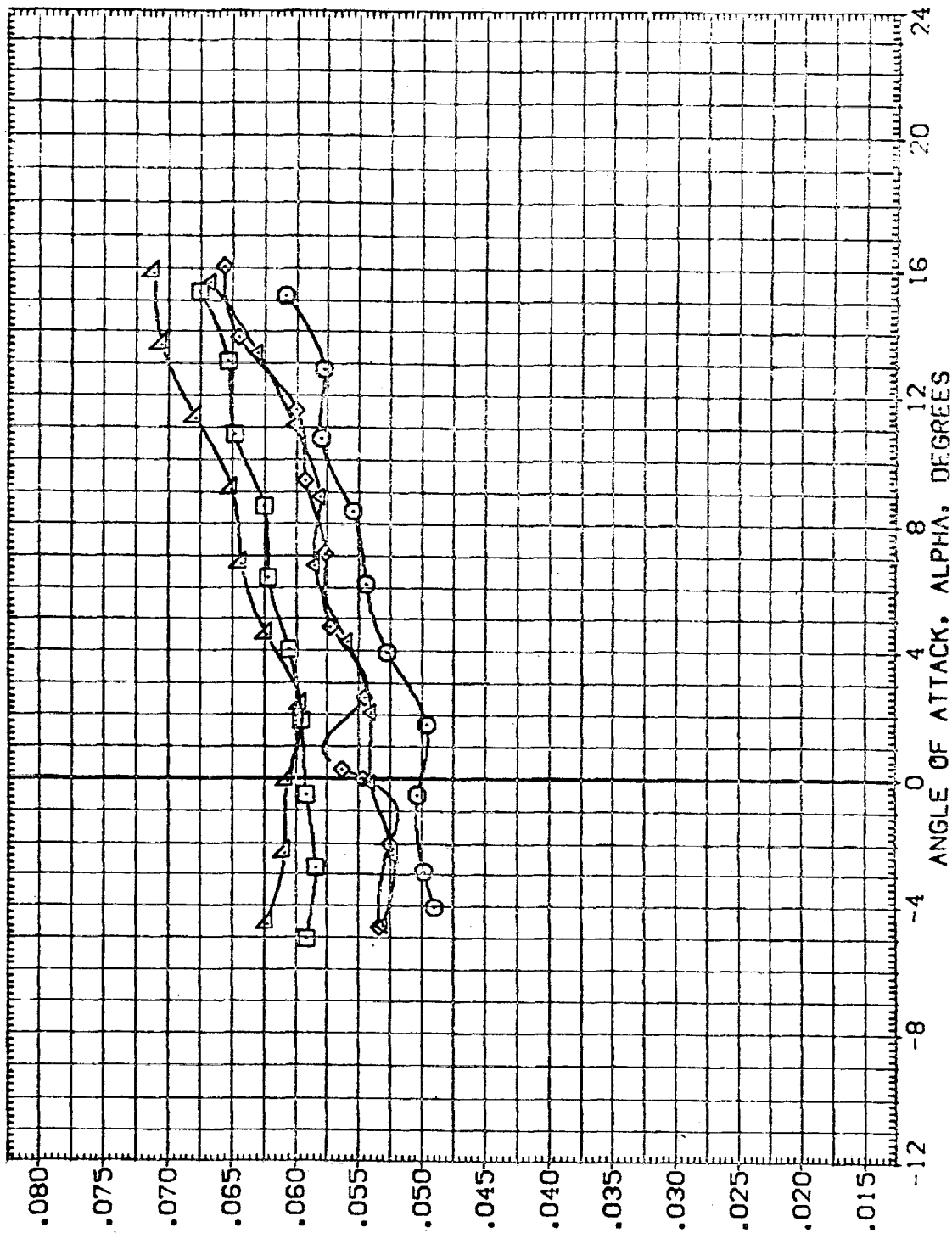


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

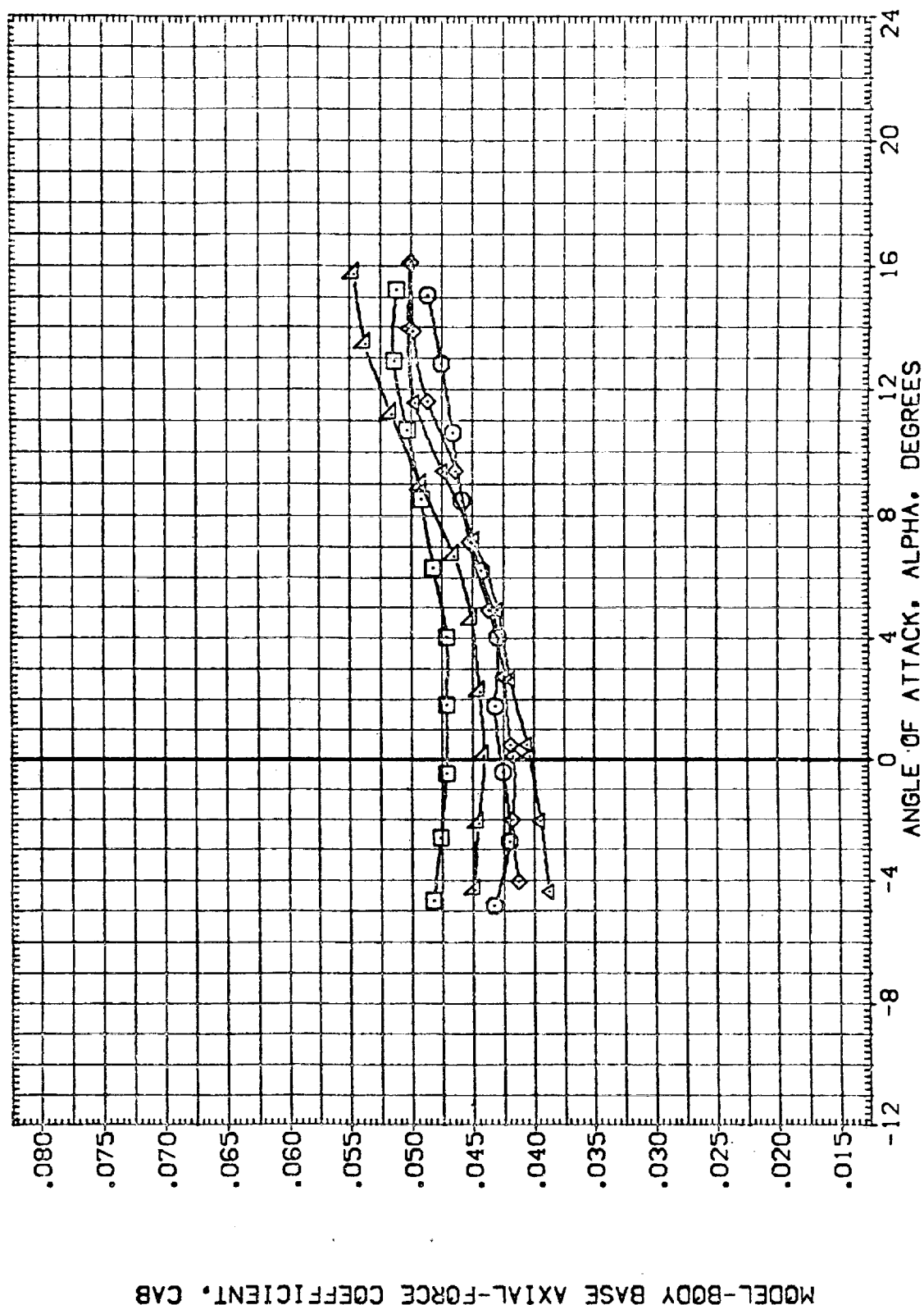


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, C<sub>AB</sub>

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

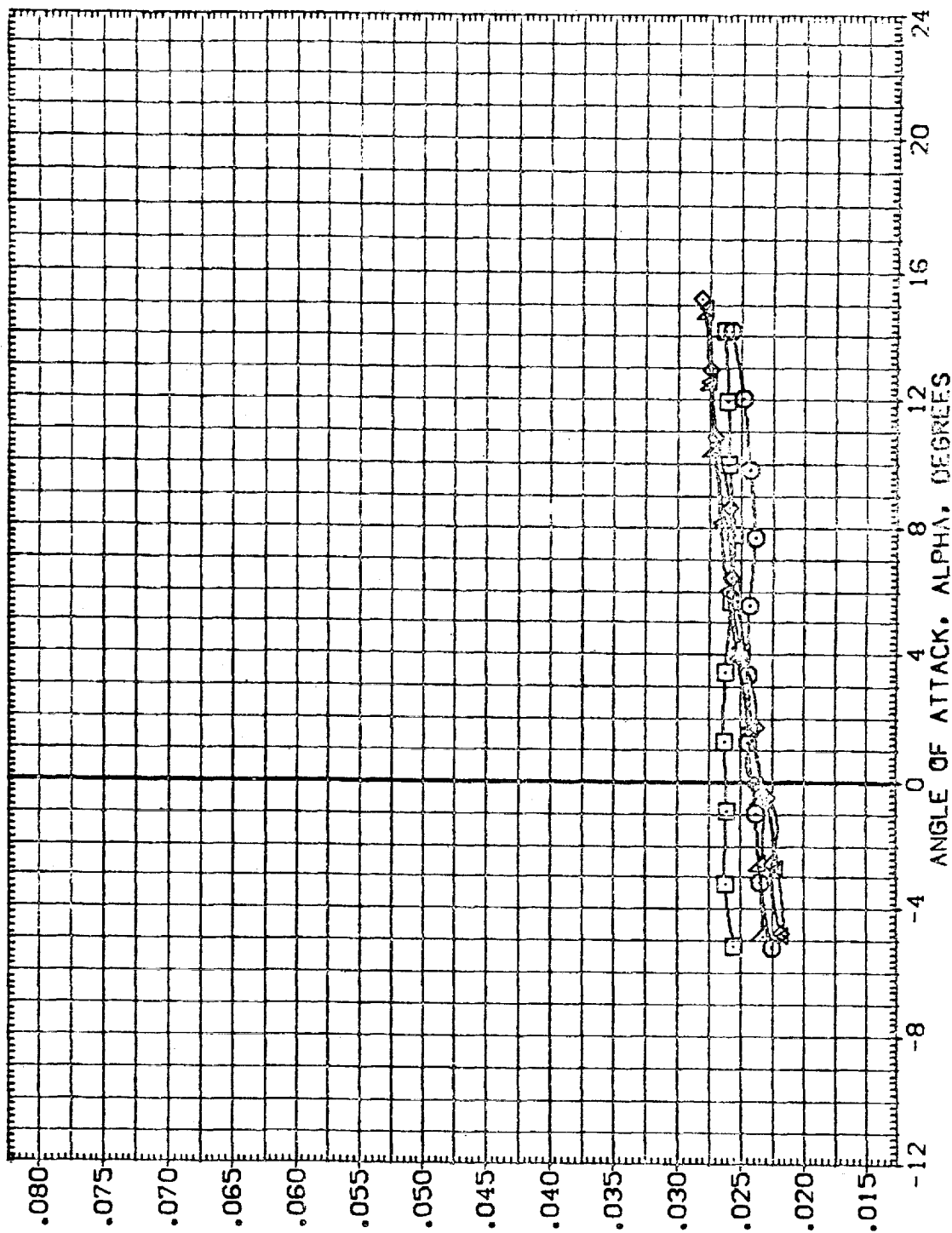


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+OUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+OUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

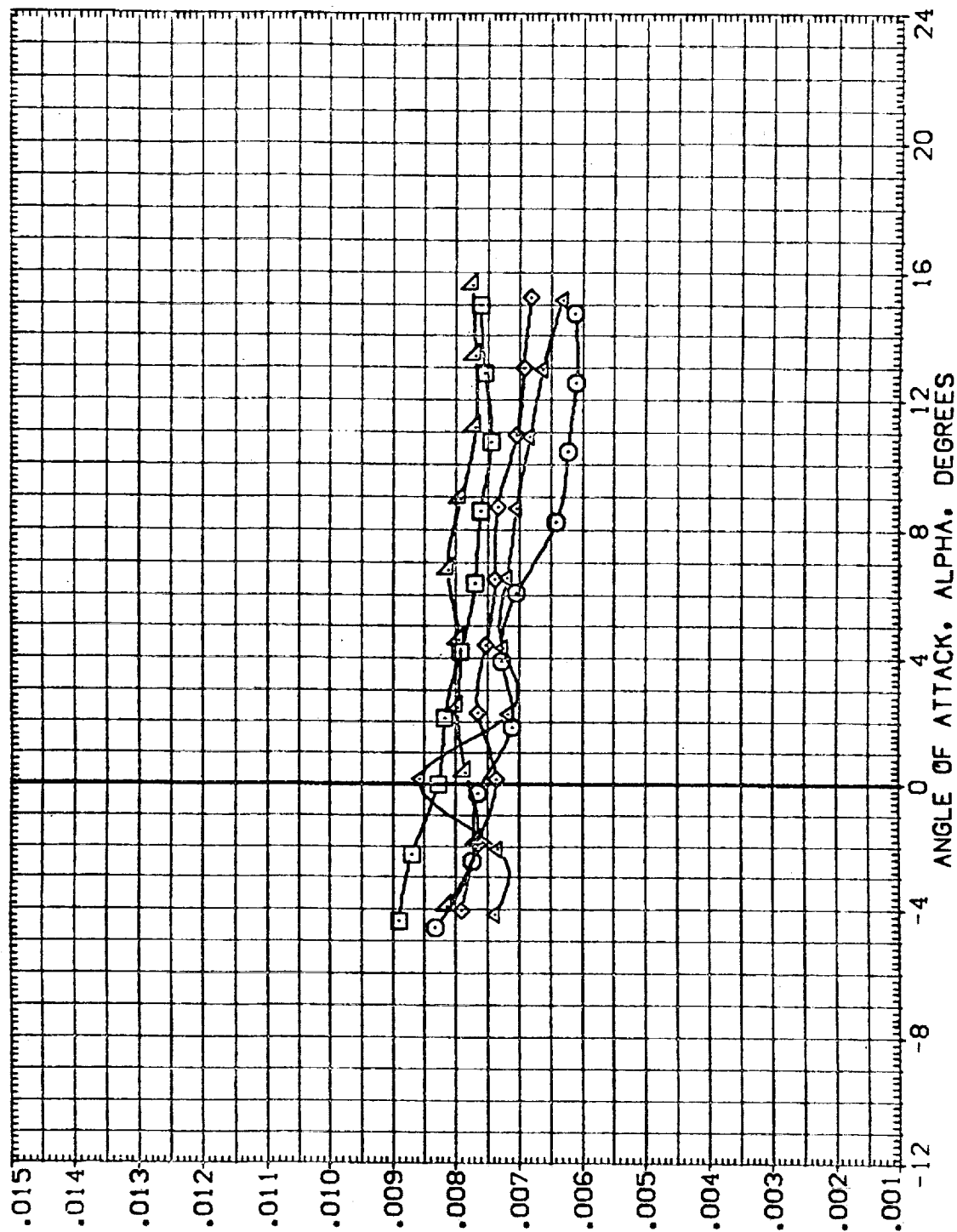


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDF LAP    REFERENCE INFORMATION

{BER001}	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{BER003}	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
{BER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
{BER012}	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
{BER013}	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

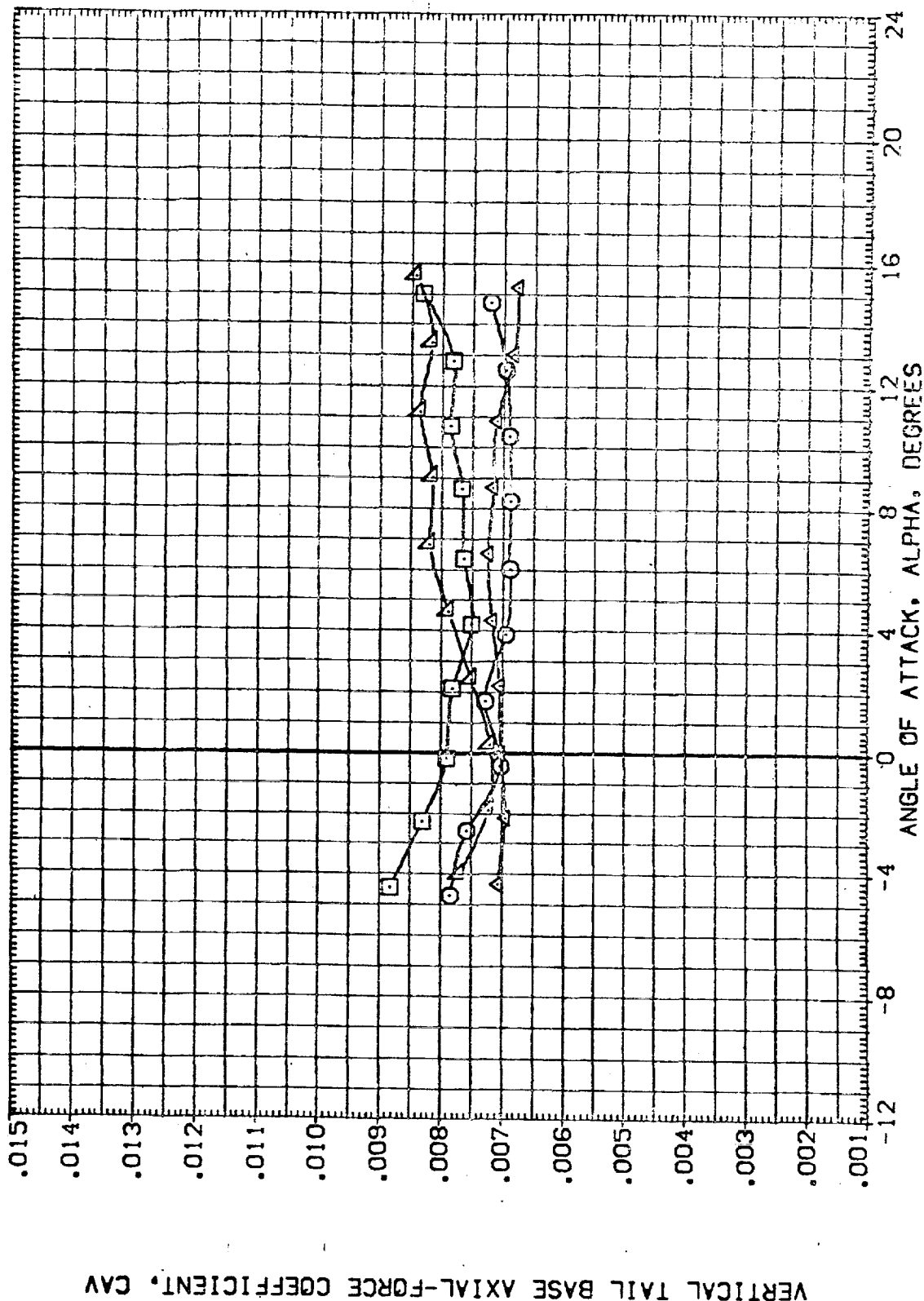


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
{BER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{BER003}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{BER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
{BER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{BER013}	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

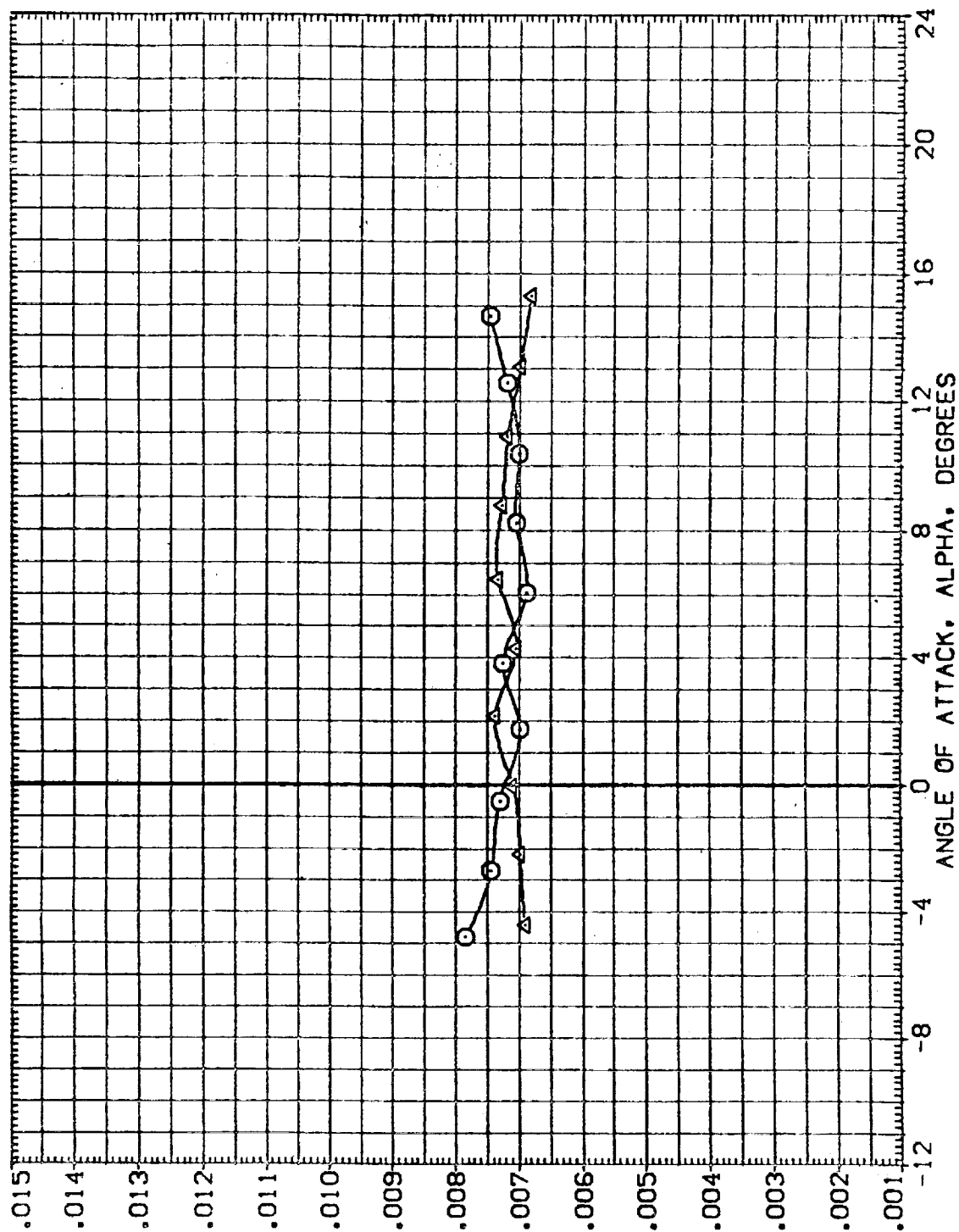


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

[C]MACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5335 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

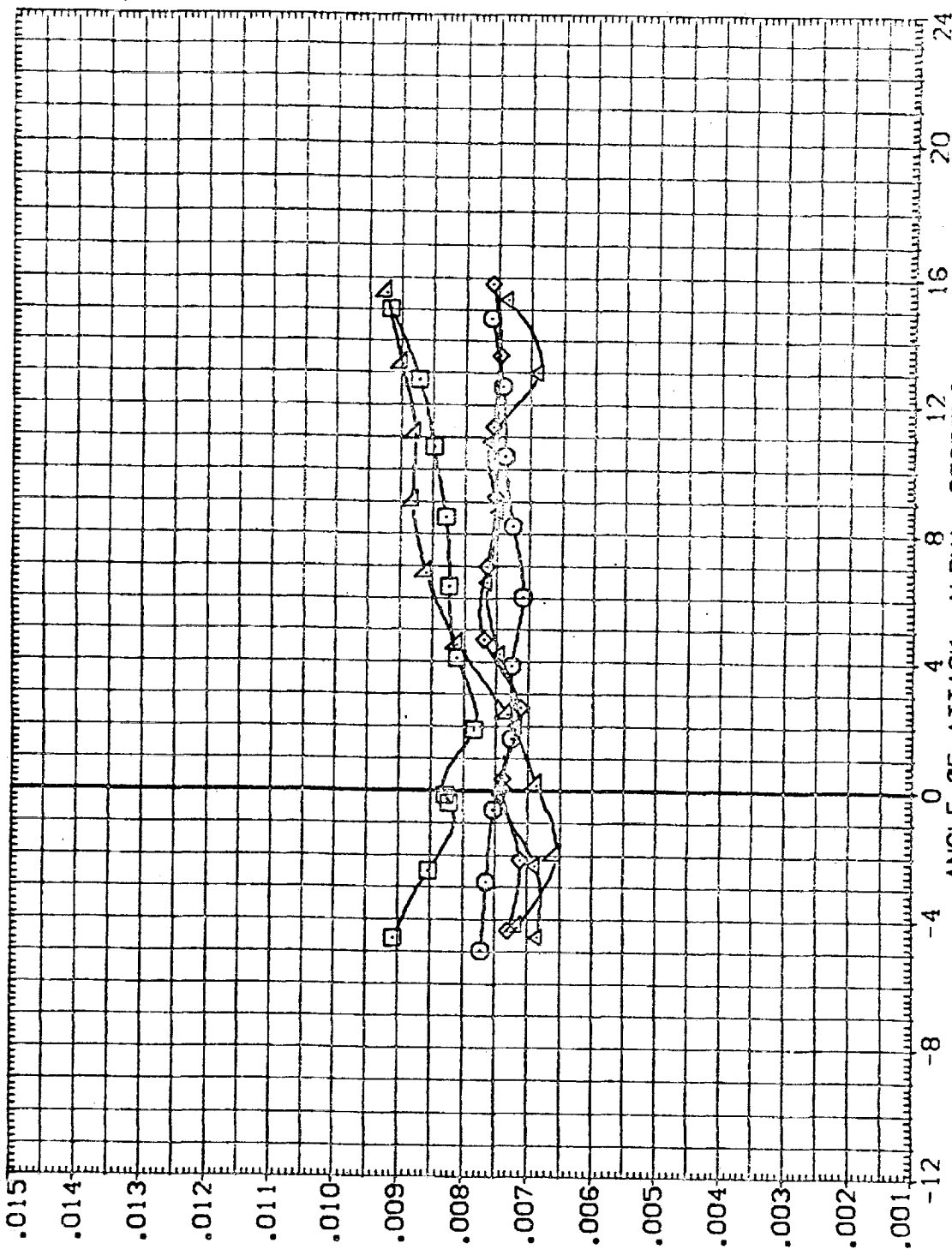


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CD)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

[BER001]    ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+OUM STNG

[BER003]    DATA NOT AVAILABLE

[BER009]    DATA NOT AVAILABLE

[BER012]    ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

[BER013]    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    50.FT.

LREF    .5935    FT.

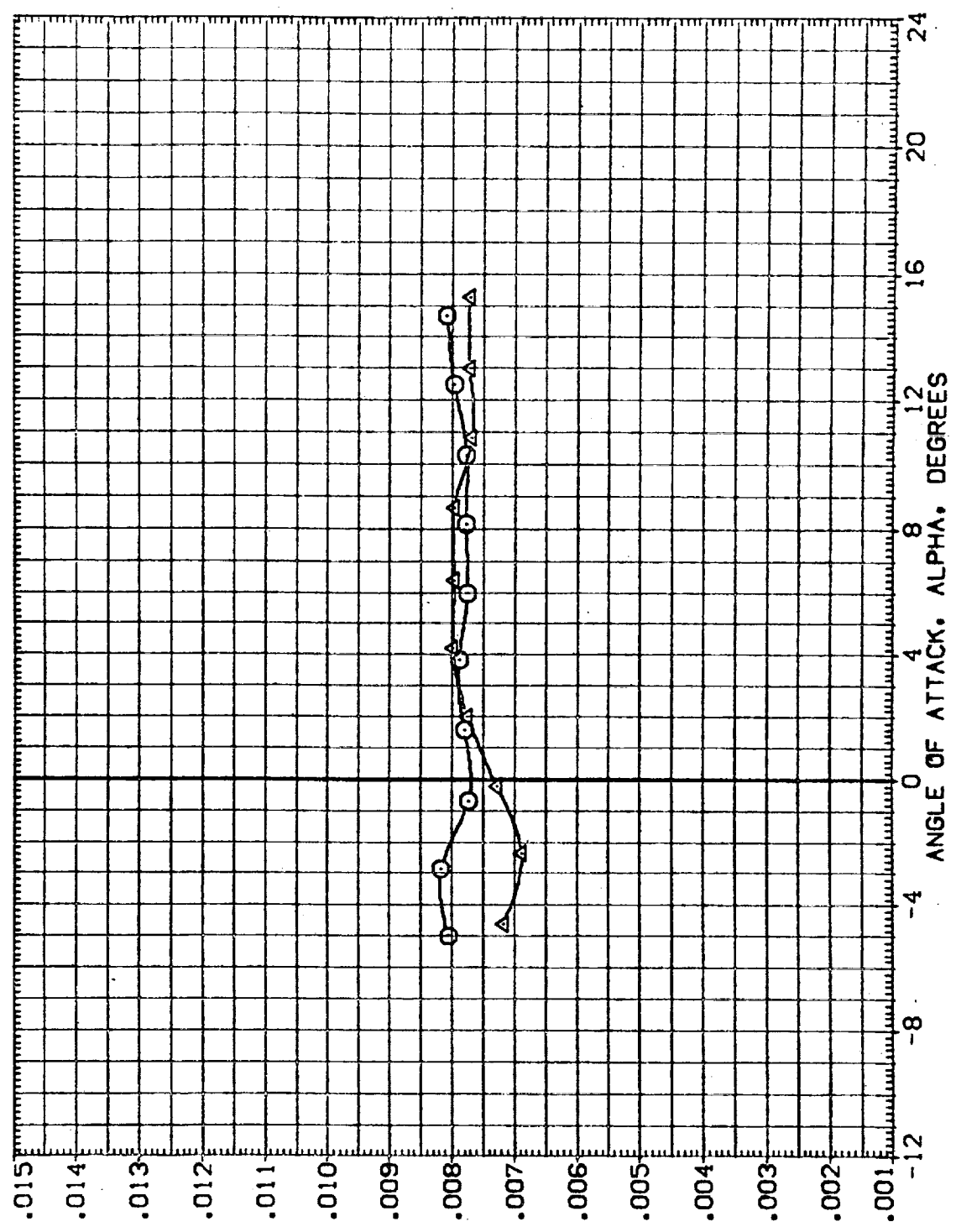
BREF    1.1710    FT.

XMRP    12.6235    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

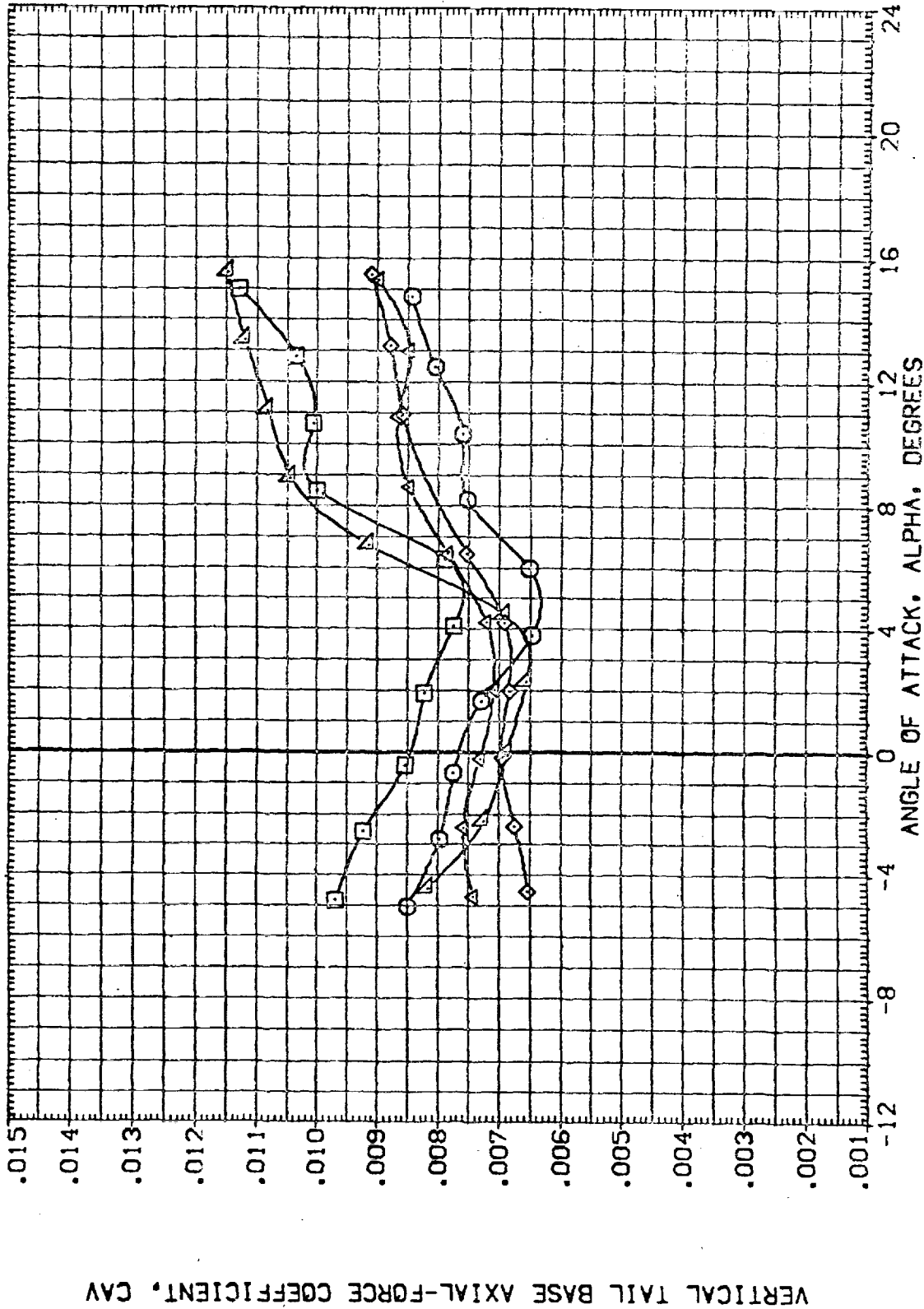


VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	□	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50 FT.
(BER003)	◇	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(BER009)	△	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	○	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	△	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
						SCALE .0150



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[BFR001]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG
[BFR002]	DATA NOT AVAILABLE
[BFR003]	DATA NOT AVAILABLE
[BFR009]	DATA NOT AVAILABLE
[BFR012]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT
[BFR013]	DATA NOT AVAILABLE

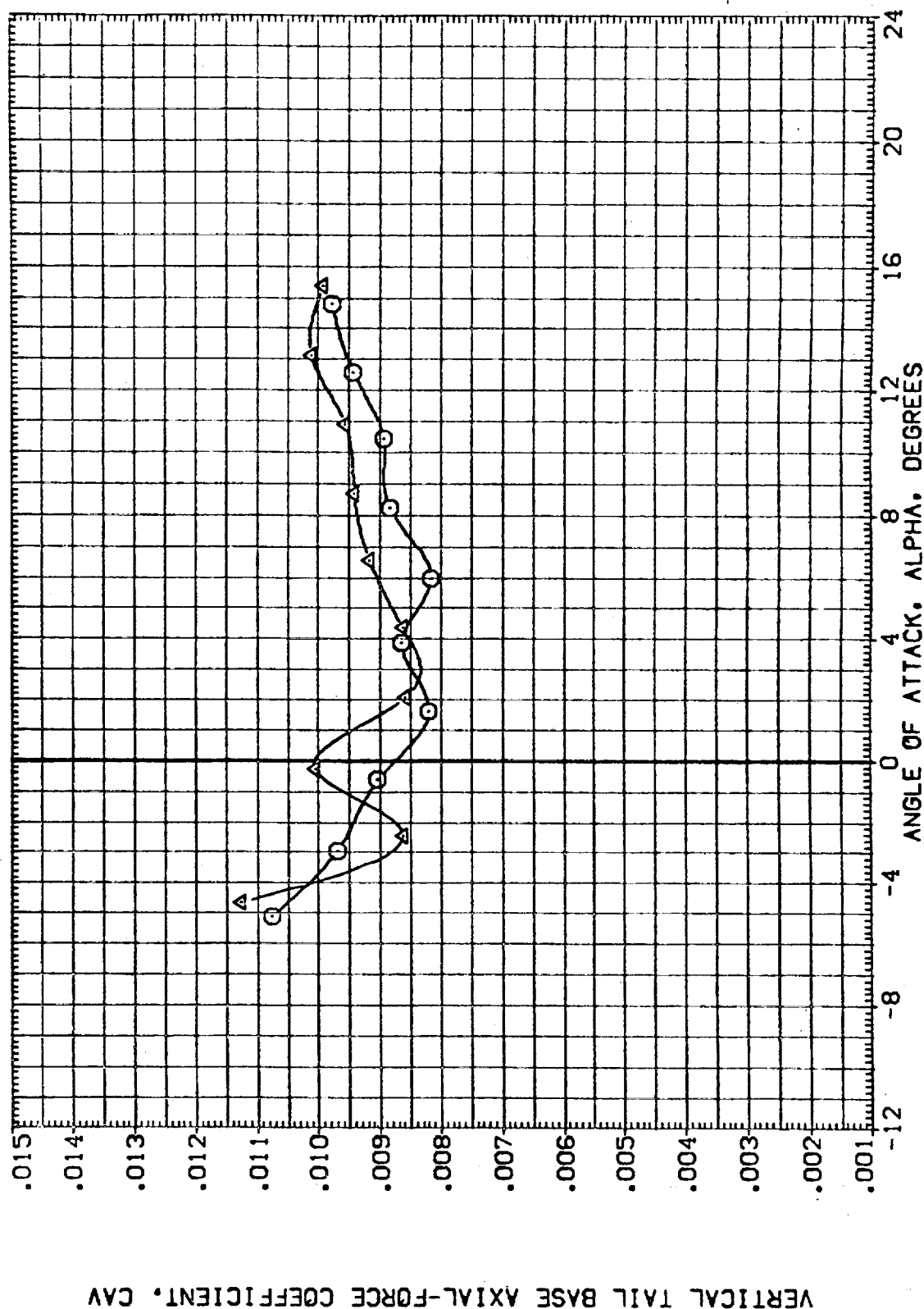


FIG. 4. ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QA59 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 QA59 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QA59 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QA59 CA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6235 IN.
(BER013)	ARC 66-709 QA59 CA11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

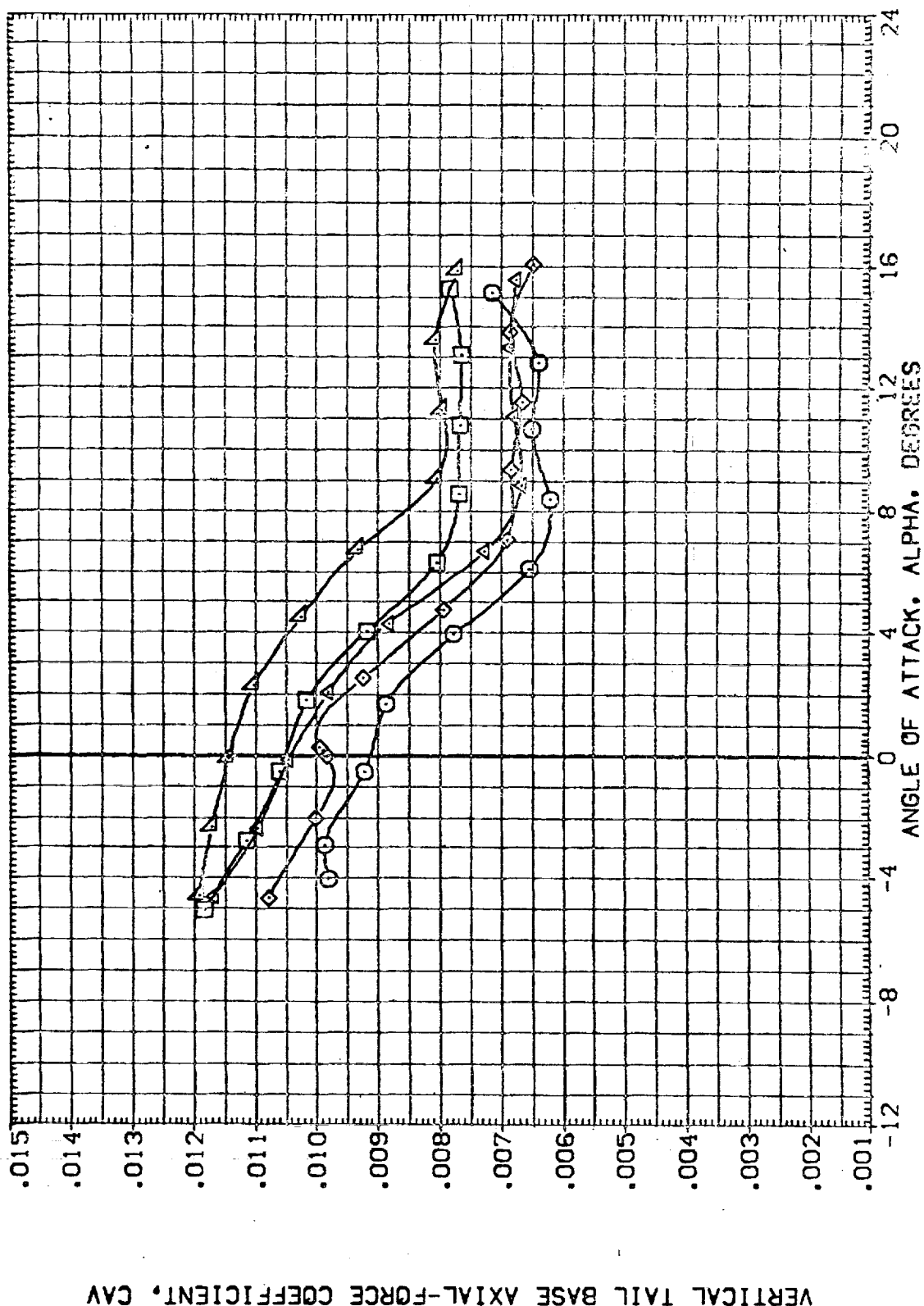


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .8053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

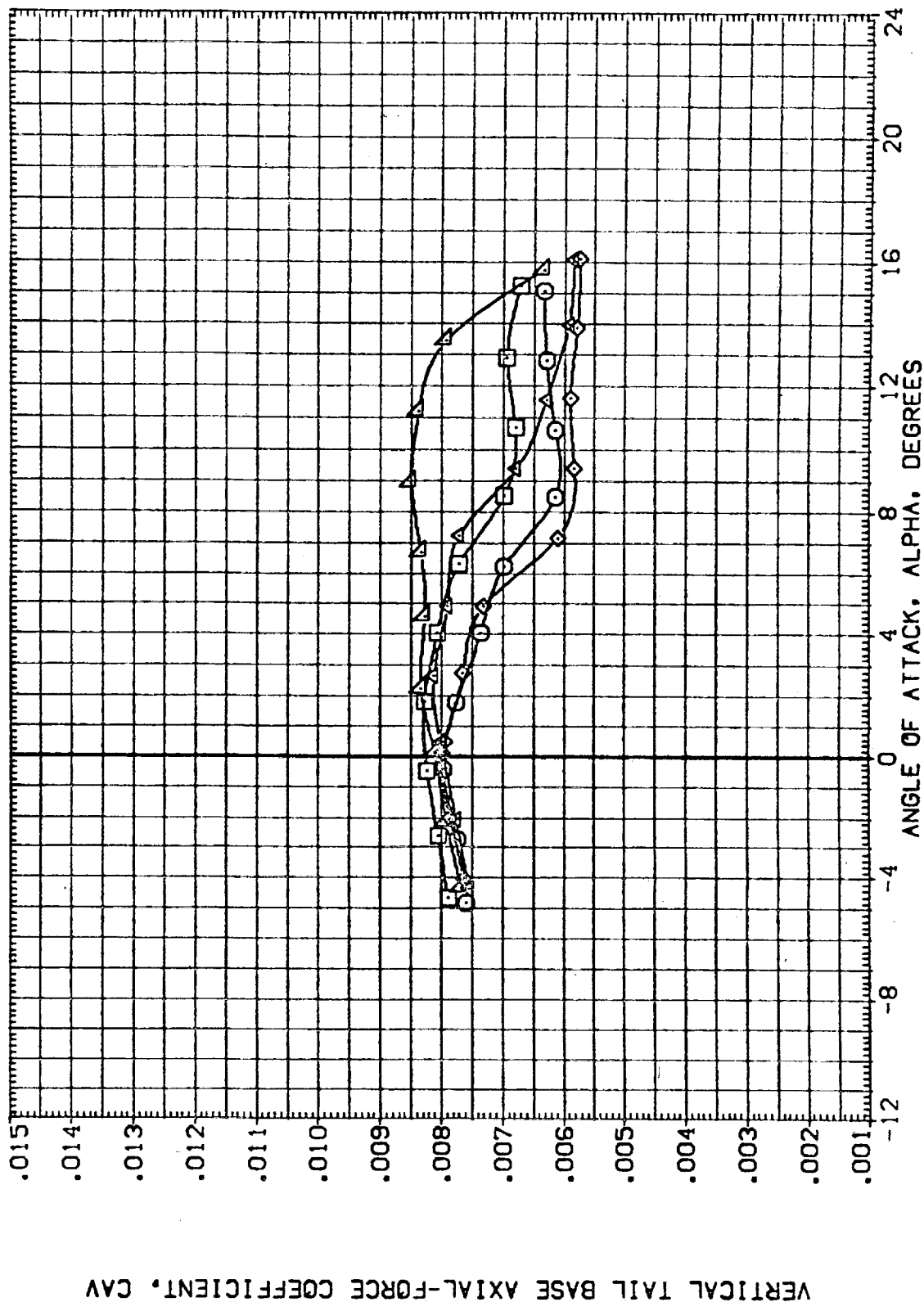


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

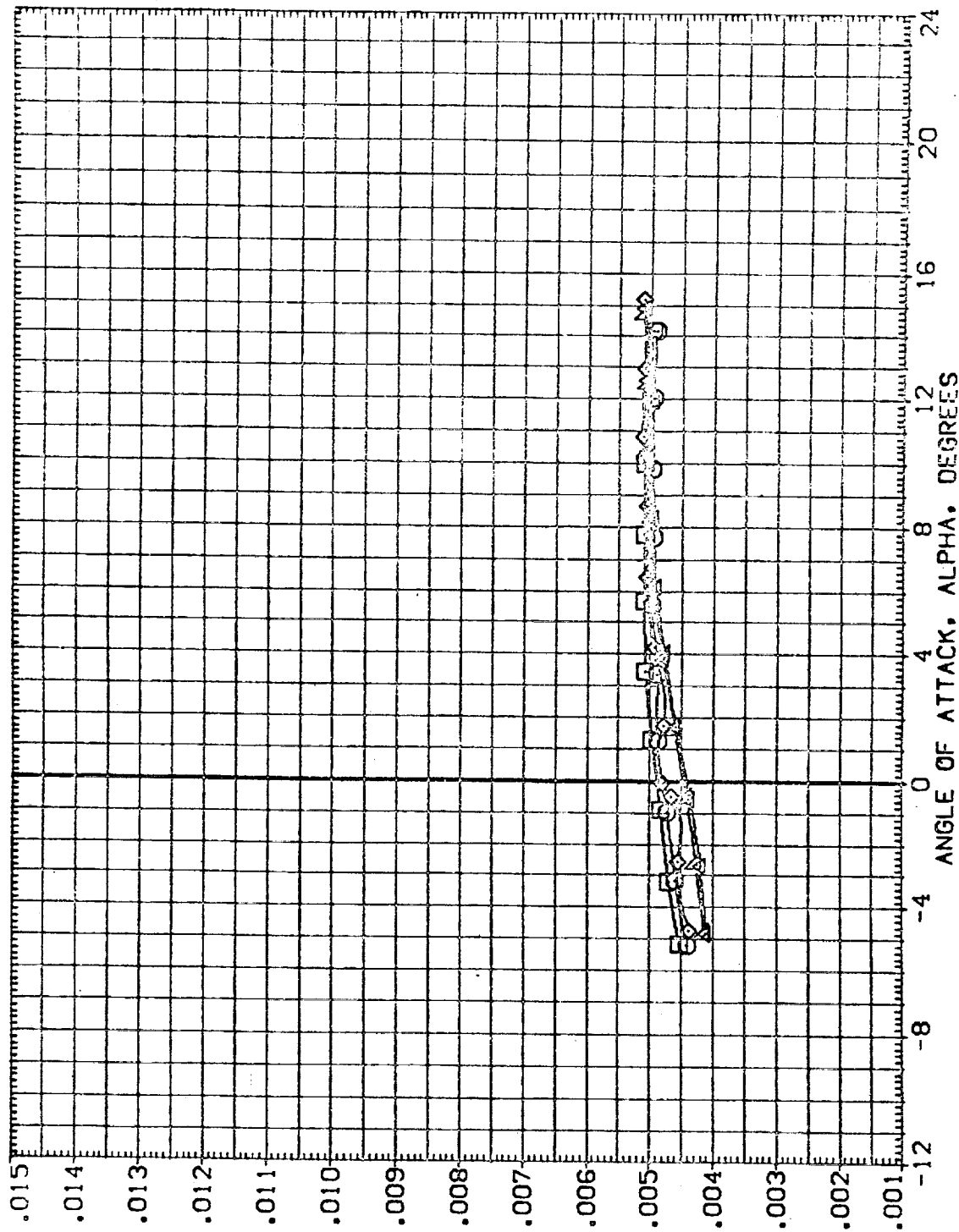


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

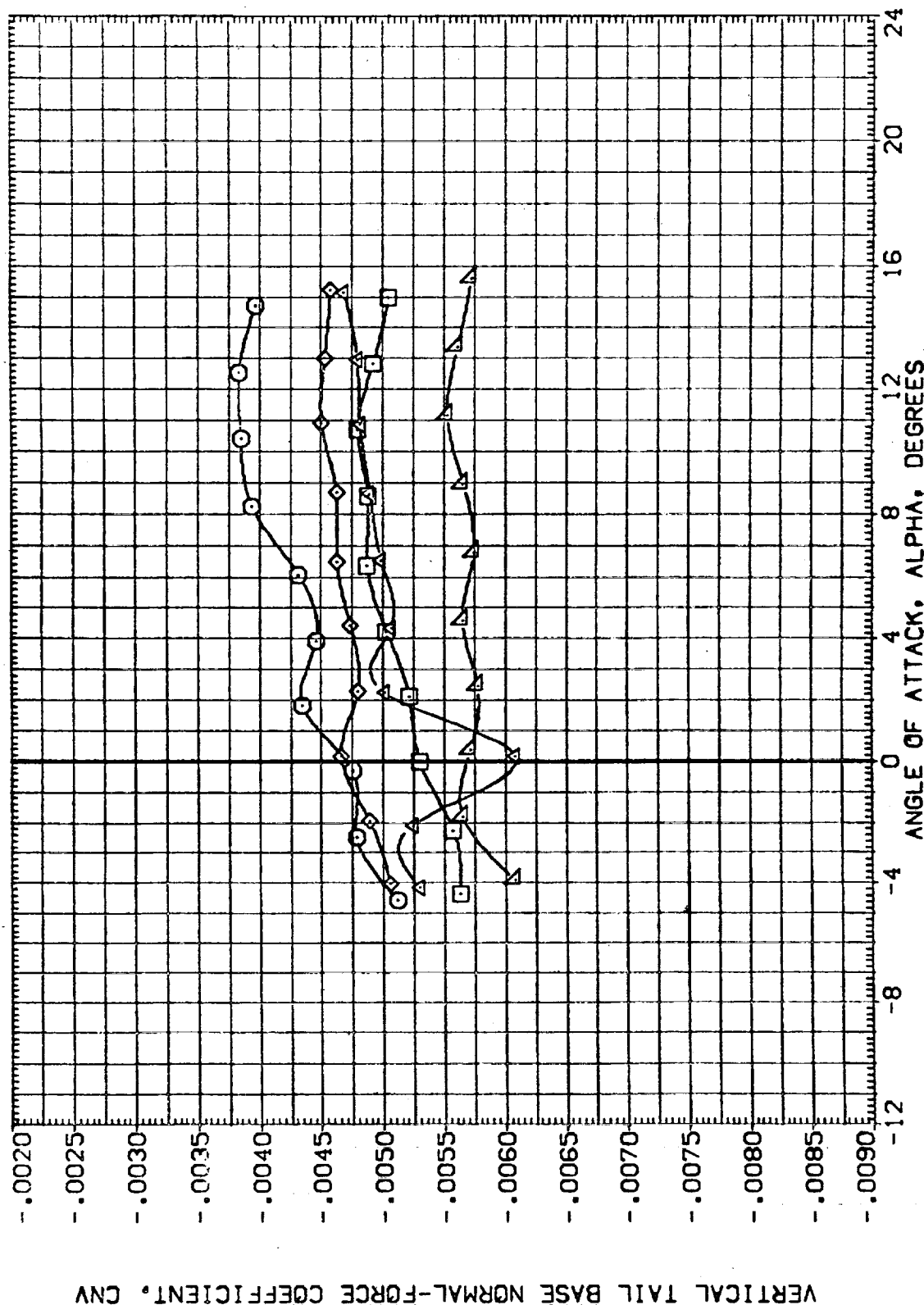


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	80% LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

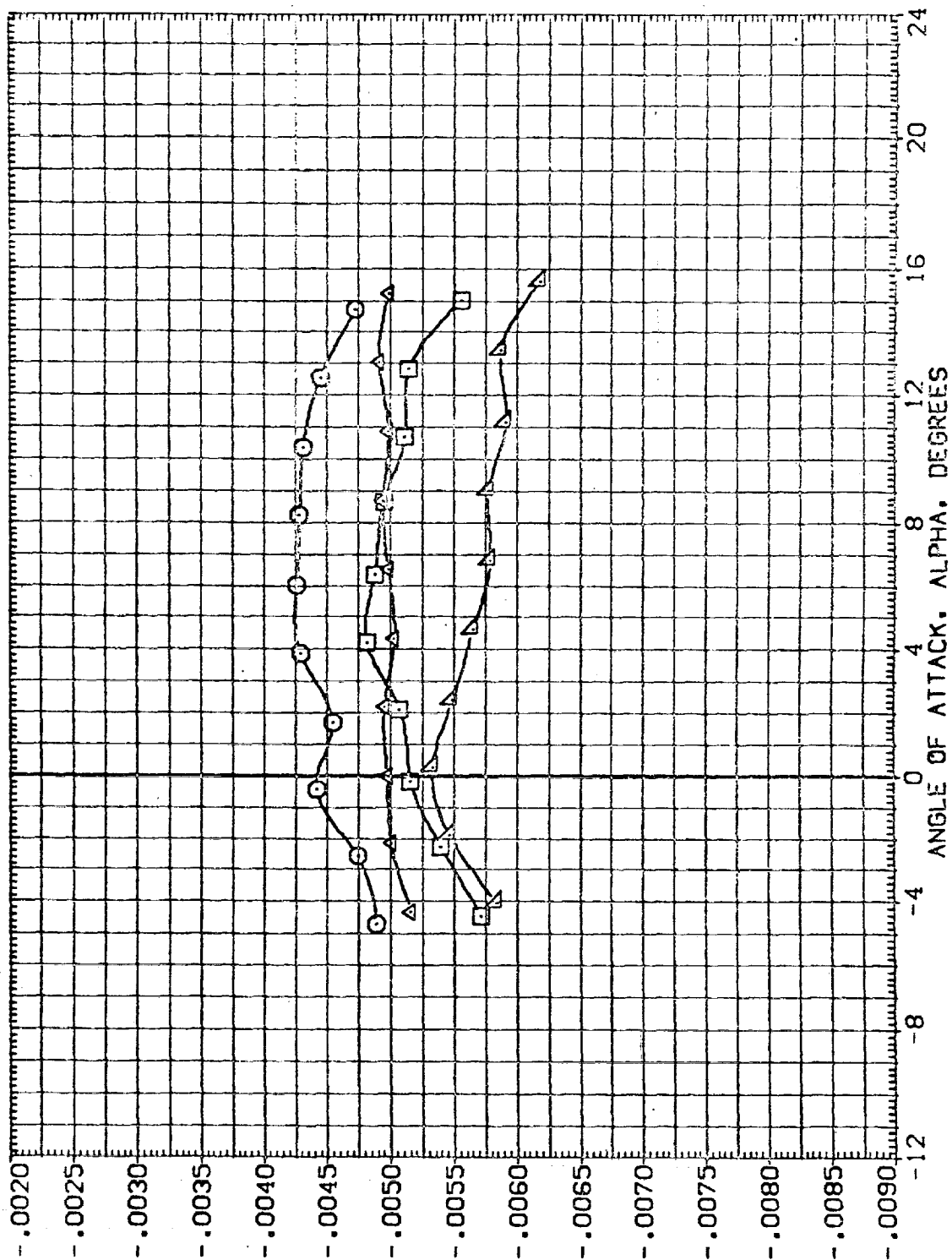


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	80% LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF 5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 D459 D411A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

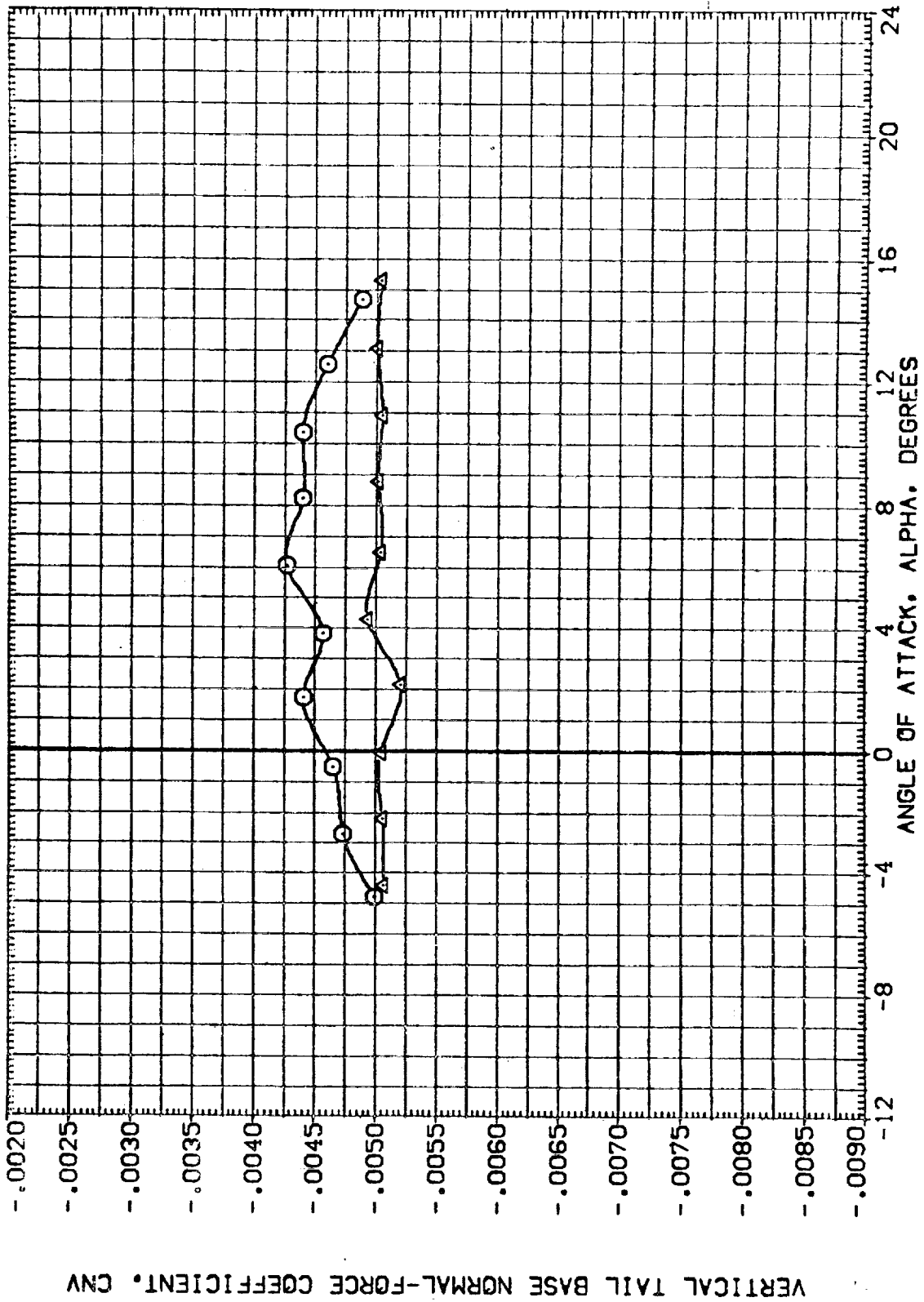


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80° LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

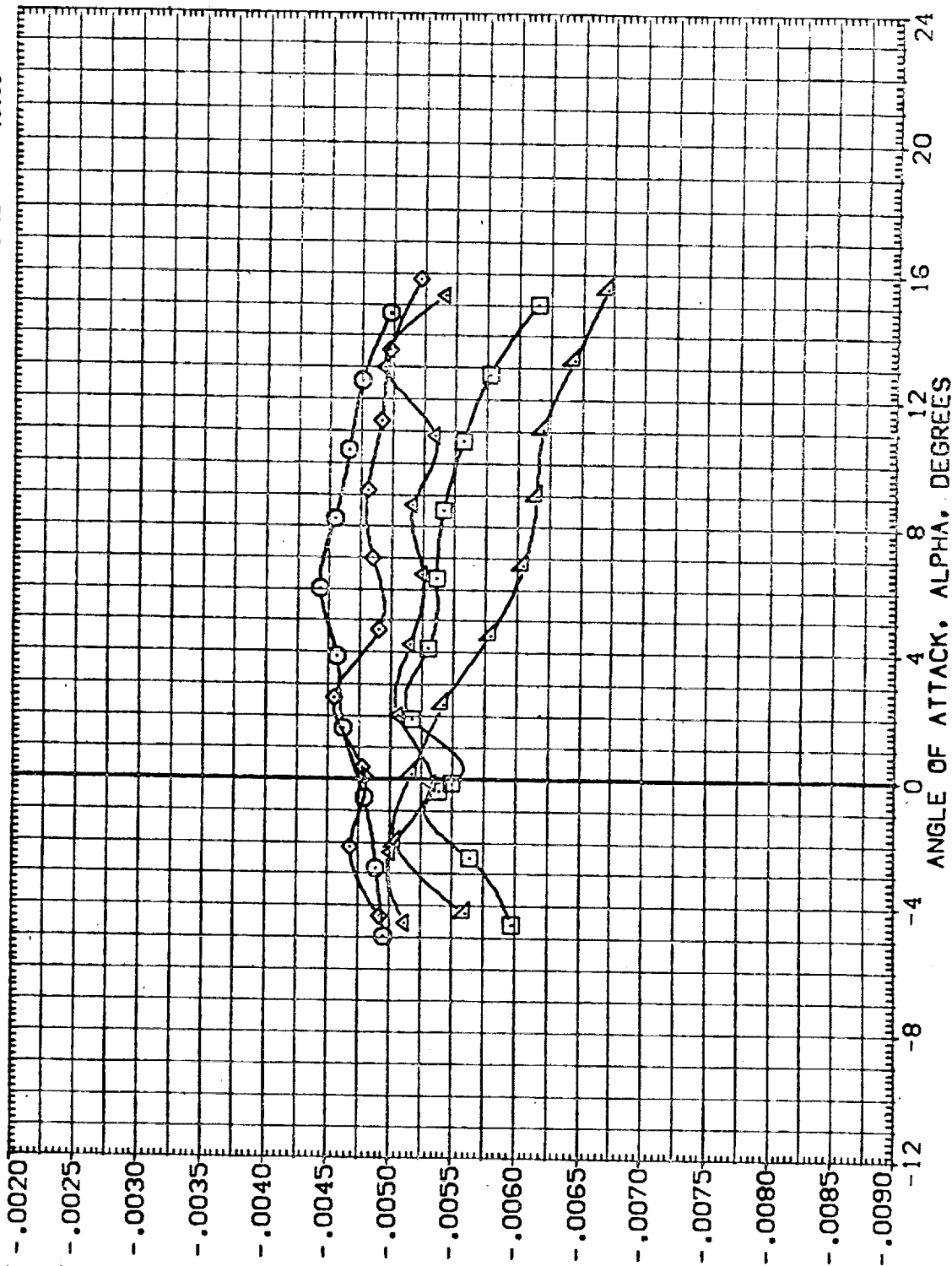


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

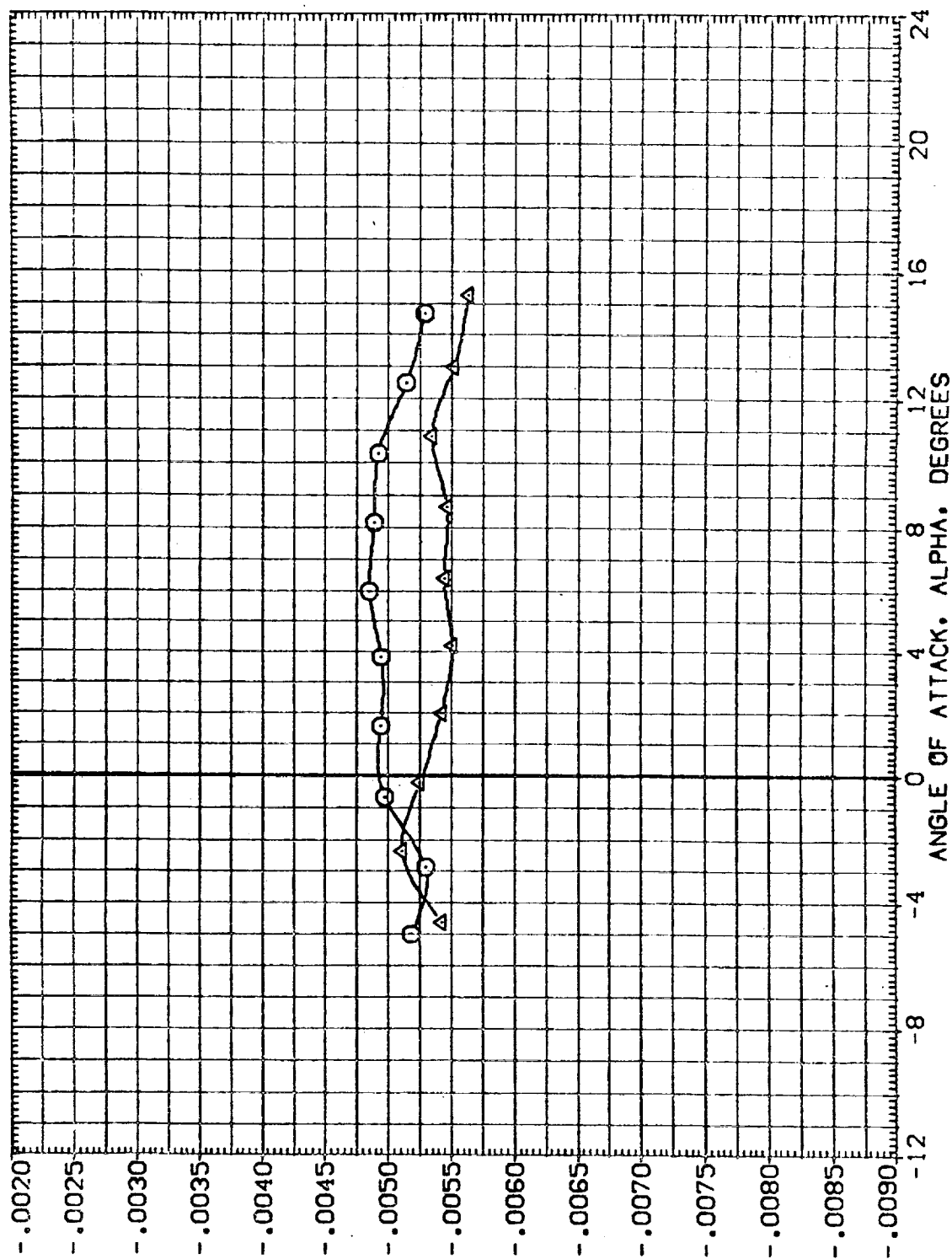
(C)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

(BER001)    ARC 66-709 QAS9 QAL1A-(N24 R5 V8)+STRUT+DUM STNG    .000    .000    -11.700  
 (BER003)    DATA NOT AVAILABLE    .000    15.000    -11.700  
 (BER009)    DATA NOT AVAILABLE    .000    .000    -11.700  
 (BER012)    ARC 66-709 QAS9 QAL1A-(R5 V8)+STRUT    .000    .000    -11.700  
 (BER013)    DATA NOT AVAILABLE    .000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.  
 LREF    .5935    FT.  
 BREF    1.1710    FT.  
 XMRP    12.6255    IN.  
 YMRP    .0000    IN.  
 ZMRP    -.3750    IN.  
 SCALE    .0150



VERTICAL TAIL BASE NORMAL-FORCE COEFFICIENT, CNV

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	YMRP .0000 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	ZMRP -.3750 IN.

SCALE .0150

BETA    ELEVON    BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

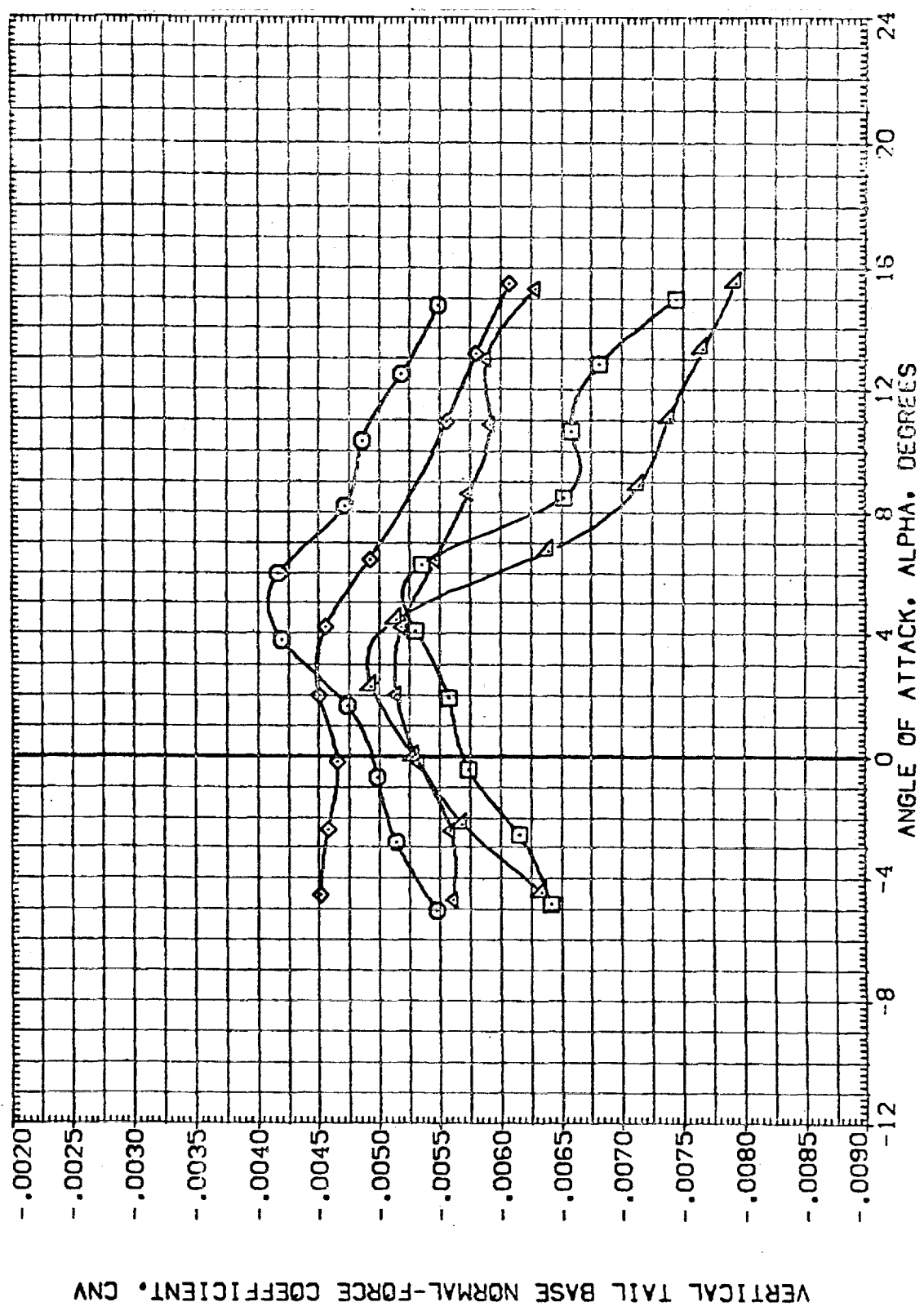


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(BER001)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

(BER003)    DATA NOT AVAILABLE

(BER009)    DATA NOT AVAILABLE

(BER012)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(BER013)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

15.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

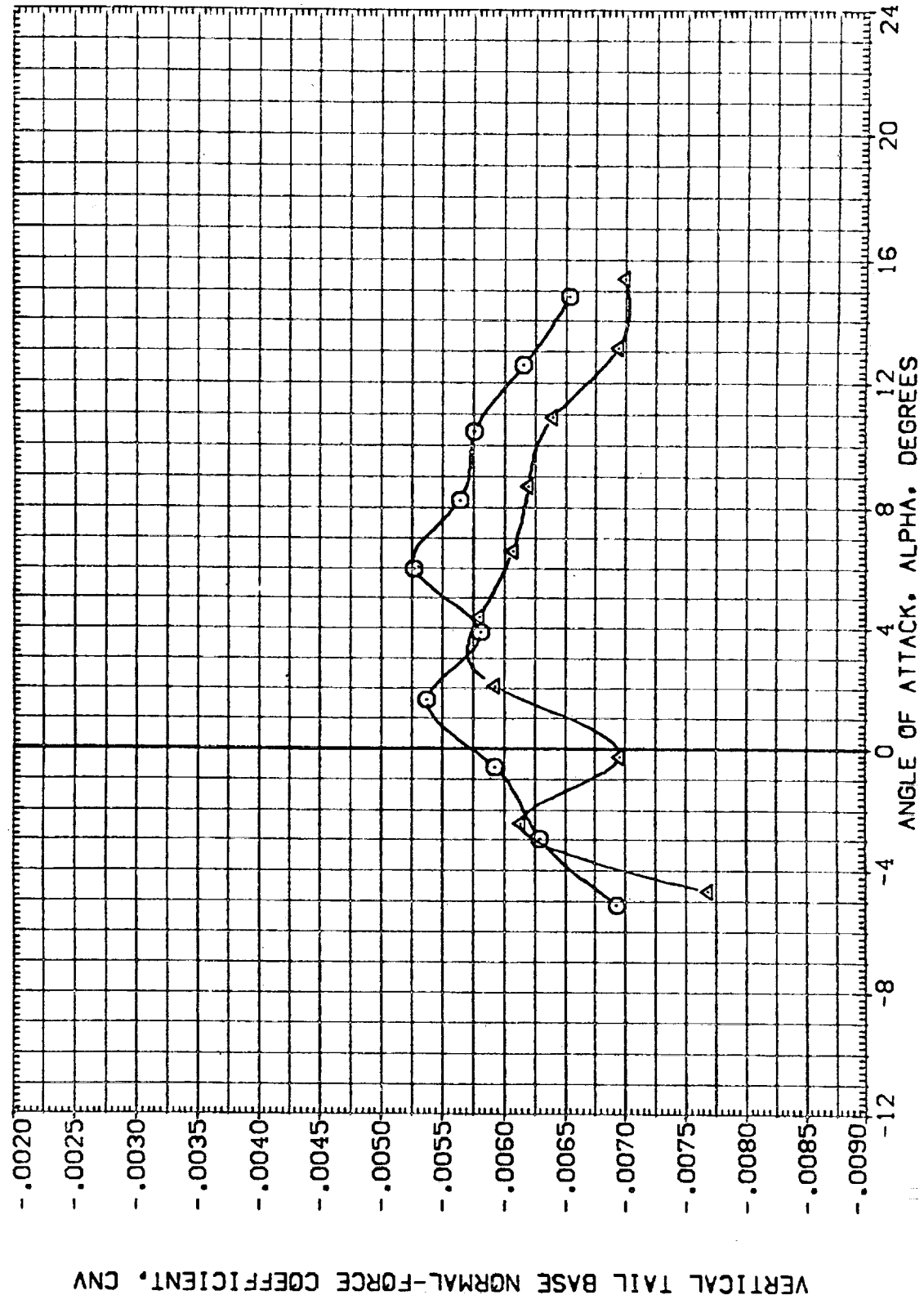


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QA59 CA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 QA59 CA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QA59 CA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QA59 CA11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 QA59 CA11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP -.3750 IN.
					SCALE .0150

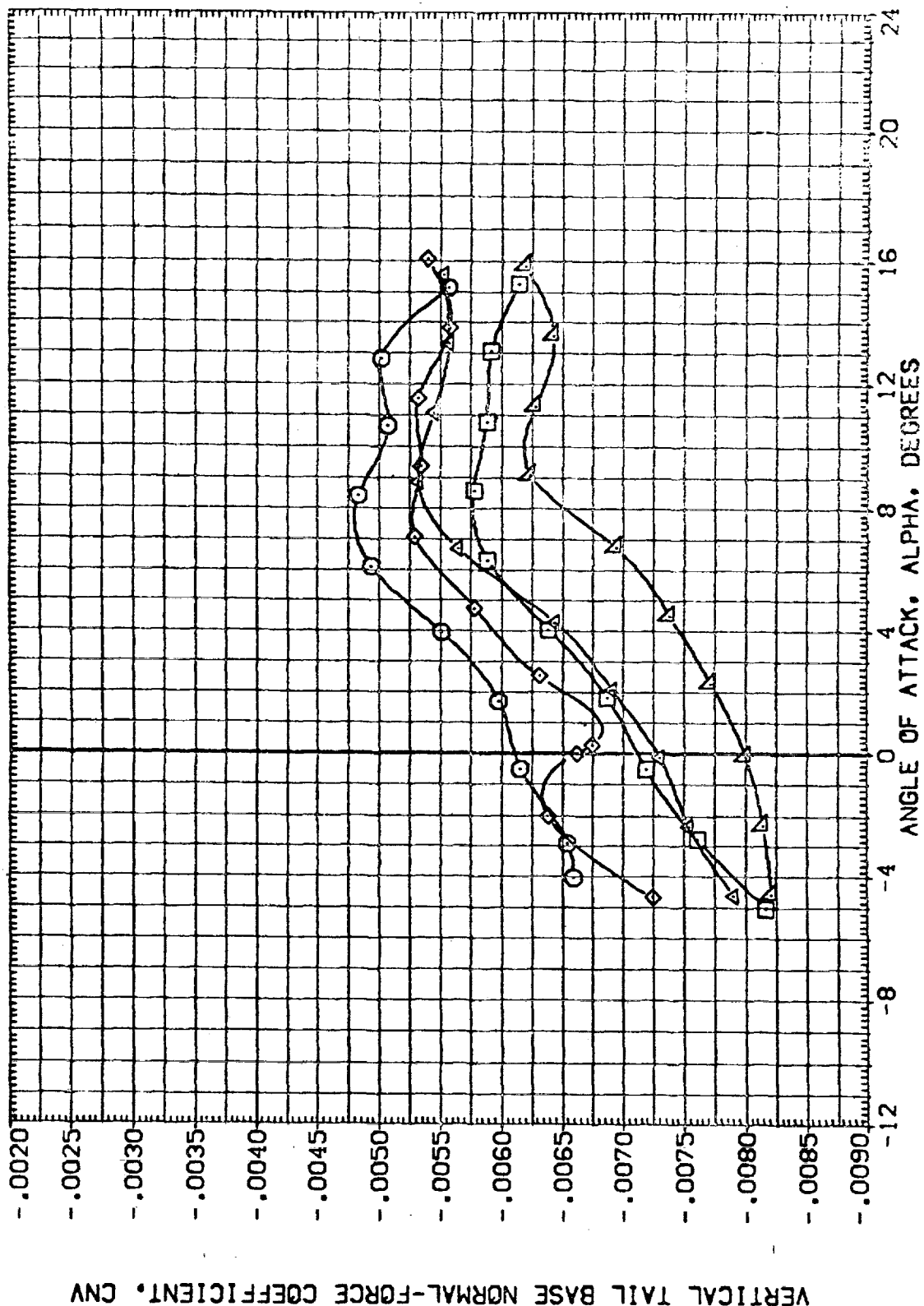


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

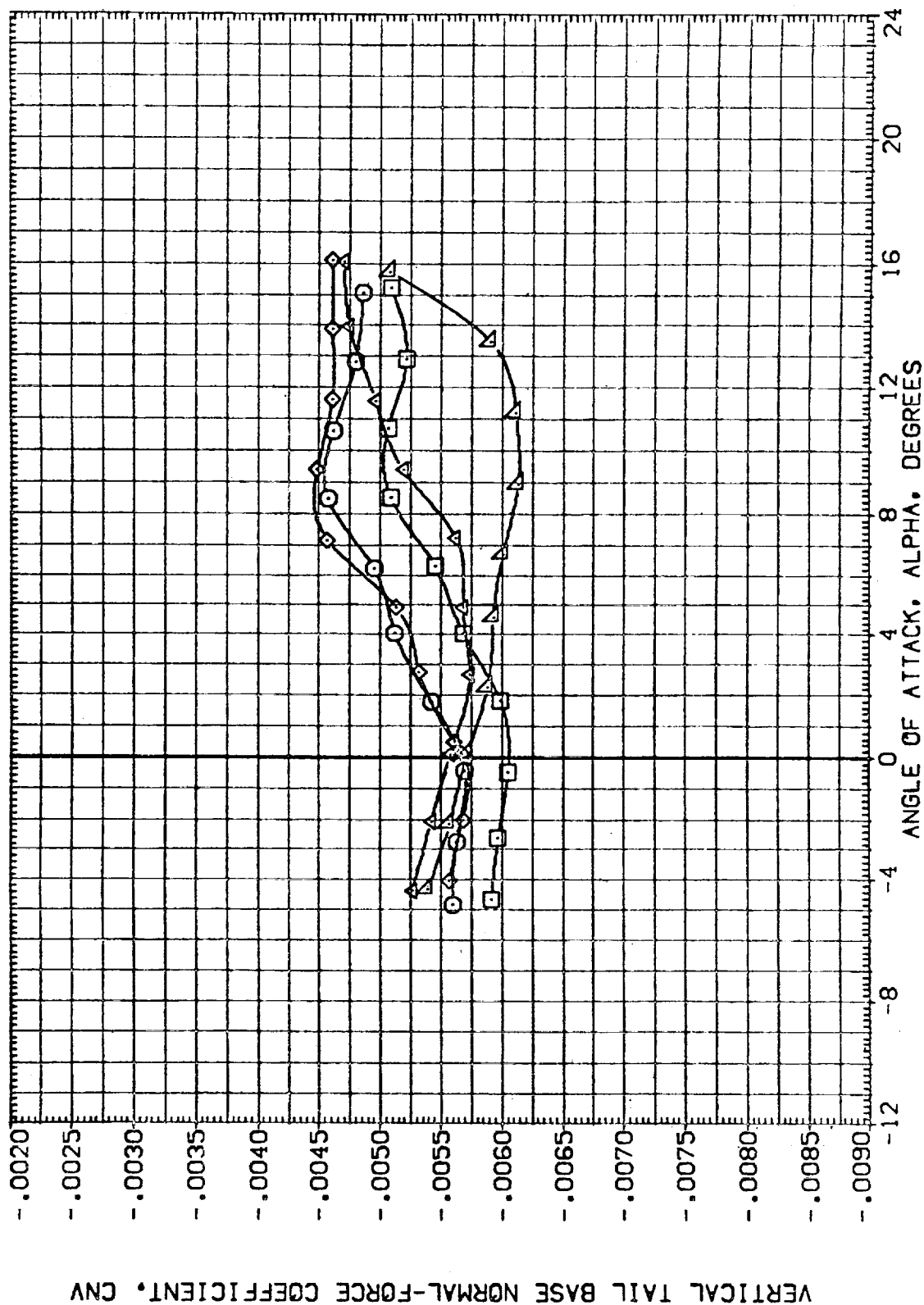


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING

(BER003) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING

(BER009) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT

(BER012) ARC 66-709 0A59 0A11A-(RS V81+STRUT

(BER013) ARC 66-709 0A59 0A11A-(RS V81+STRUT

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

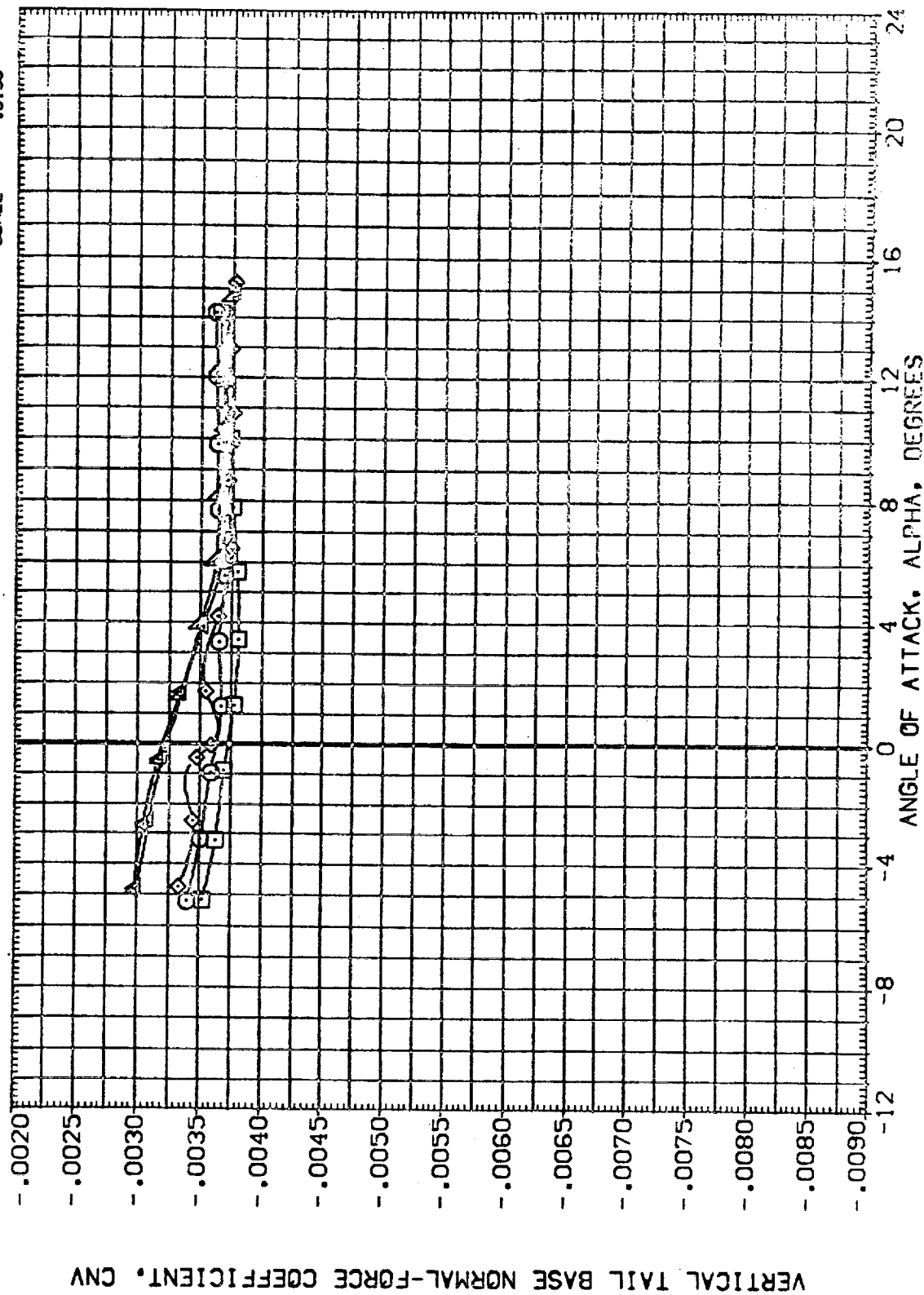


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(BER001)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG    .000    .000    -11.700    SREF    .6053    SQ.FT.

(BER003)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG    .000    .000    -11.700    LREF    .5935    FT.

(BER009)    ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT    .000    .000    -11.700    BREF    1.1710    IN.

(BER012)    ARC 66-709 0A59 0A11A-(RS V81)+STRUT    .000    .000    -11.700    XMRP    12.6255    IN.

(BER013)    ARC 66-709 0A59 0A11A-(RS V81)+STRUT    .000    .000    -11.700    ZMRP    -.3750    IN.

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

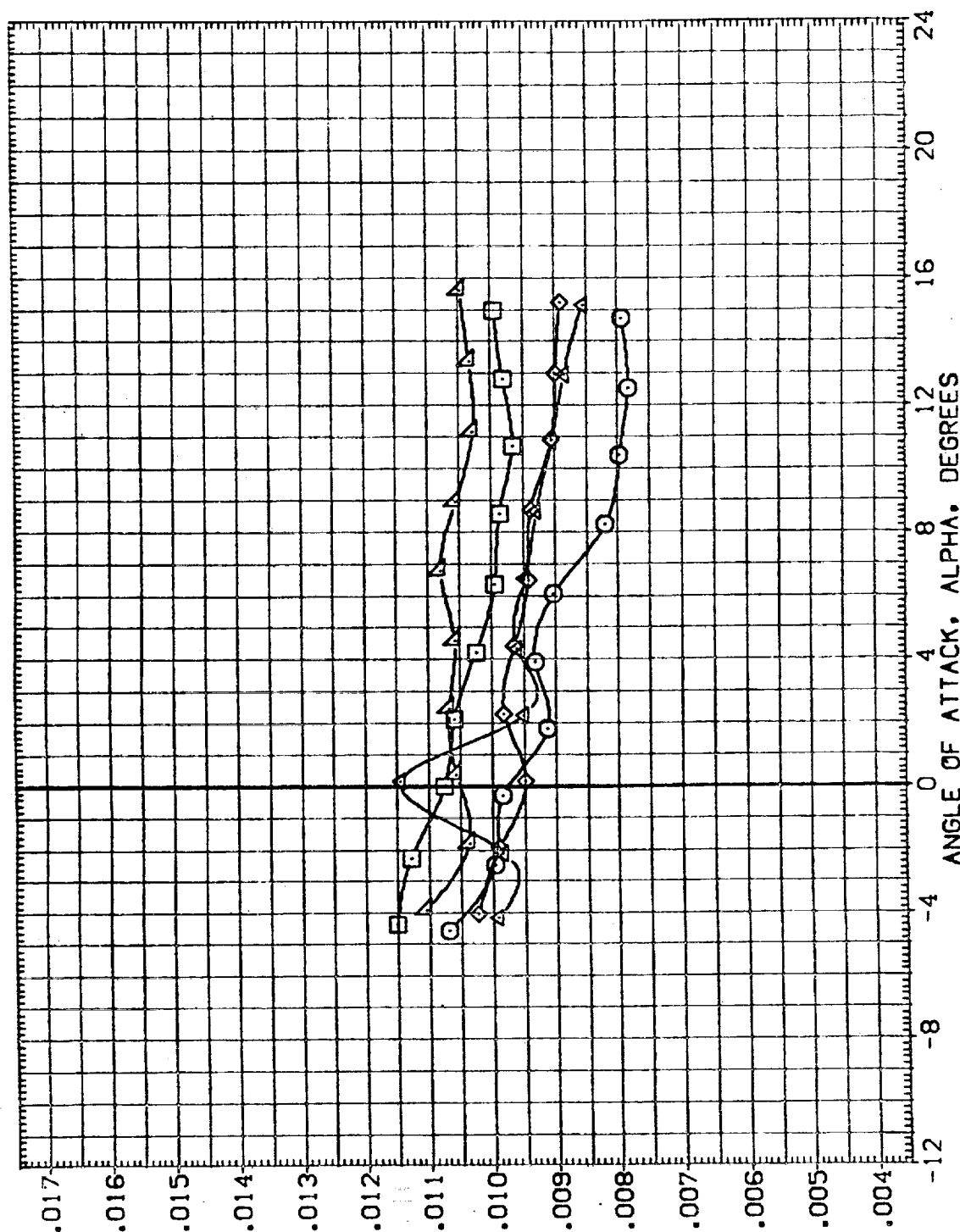


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

# DATA SET SYMBOL

{BER001}  
{BER003}  
{BER009}  
{BER012}  
{BER013}

# CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG  
ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG  
DATA NOT AVAILABLE  
ARC 66-709 0A59 0A11A-(R5 V8)+STRUT  
ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

# BETA

.000  
.000  
.000  
.000  
.000

# ELEVON

.000  
15.000  
.000  
.000  
15.000

# 80FLAP

-11.700  
-11.700  
-11.700  
-11.700  
-11.700

# REFERENCE INFORMATION

SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

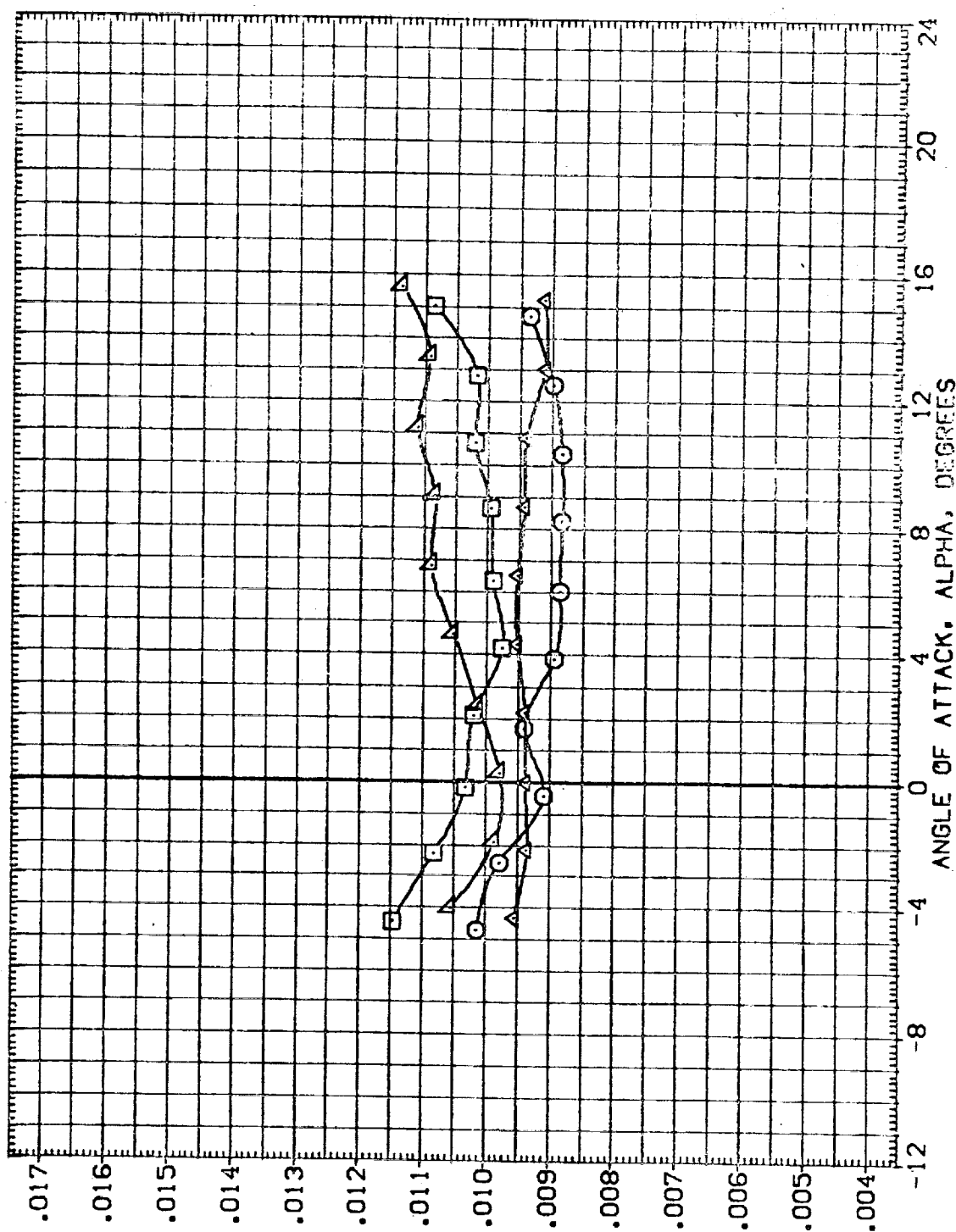


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(BJMACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(BER001)    ARC 66-709 DAS9 DALLIA-(N24 R5 V81)+STRUT+DUM STNG

(BER003)    DATA NOT AVAILABLE

(BER009)    DATA NOT AVAILABLE

(BER012)    ARC 66-709 DAS9 DALLIA-(R5 V81)+STRUT

(BER013)    DATA NOT AVAILABLE

BETA    ELEVON    BDFLAP

.000    .000    -11.700

15.000    .000    -11.700

.000    .000    -11.700

.000    .000    -11.700

15.000    .000    -11.700

REFERENCE INFORMATION

SREF    6053    50 FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

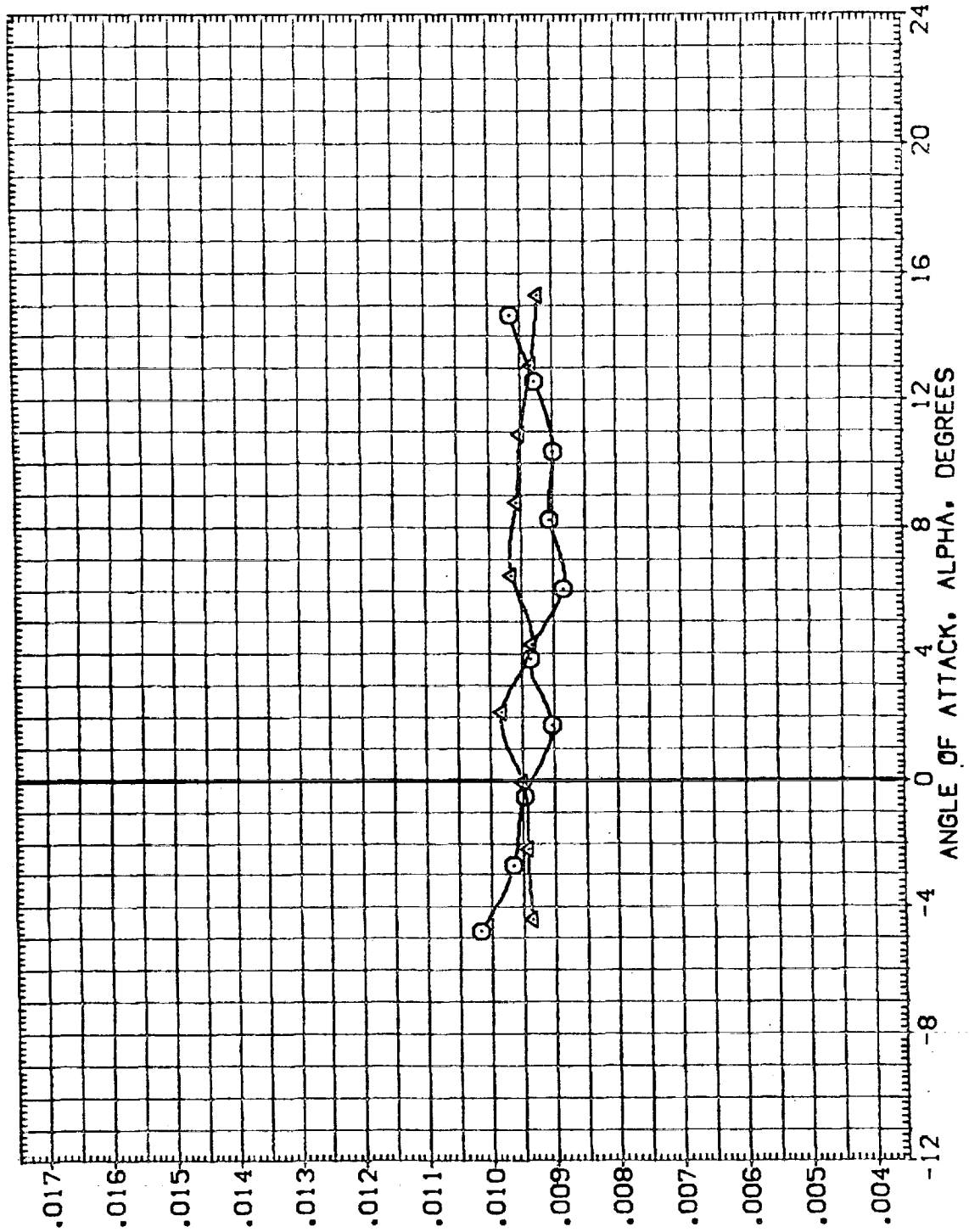


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

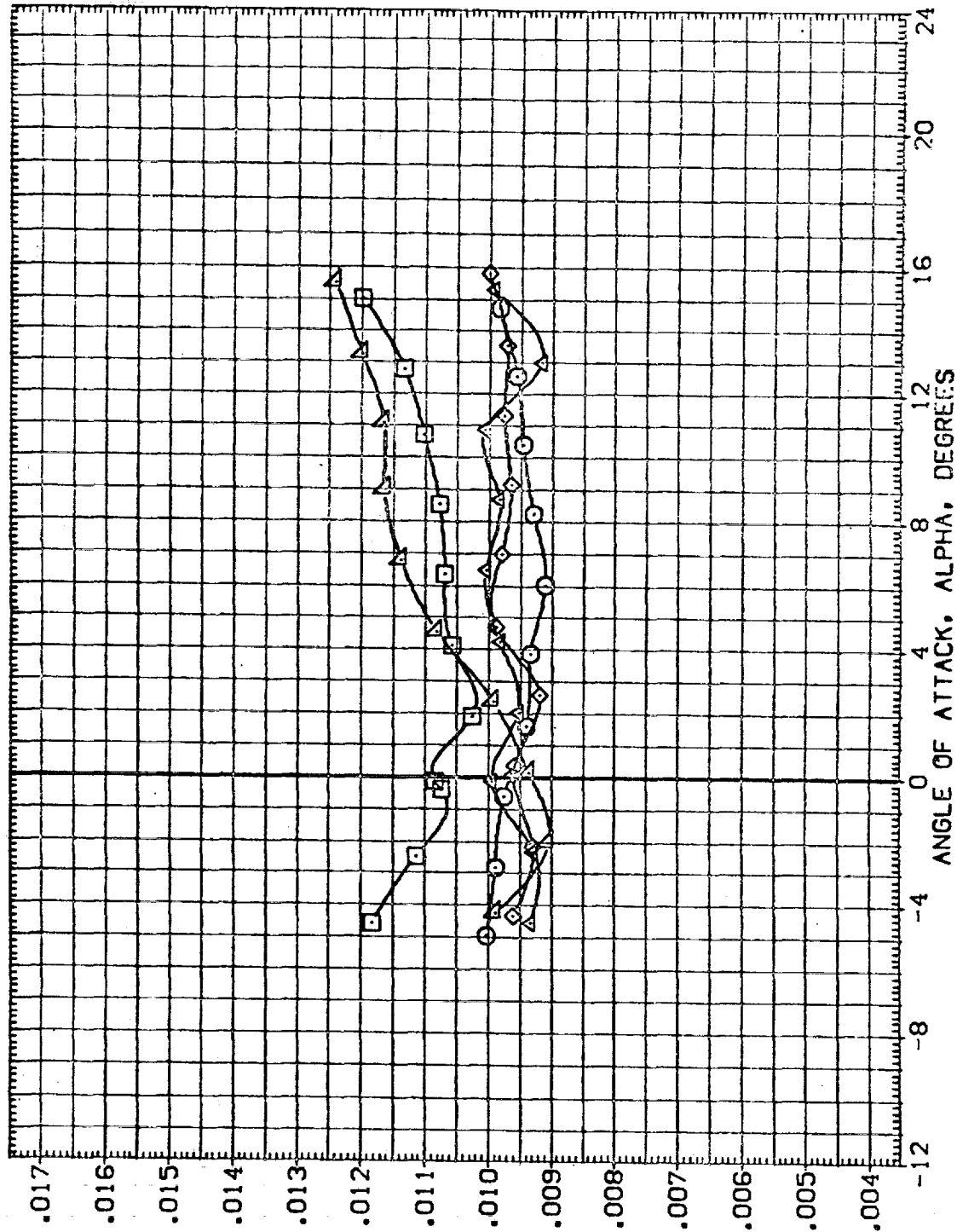


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(BER001)      ARC 66-709 DASS 0A11A-(N24 R5 V8)+STRUT+DUM STNG

(BER003)      DATA NOT AVAILABLE

(BER009)      DATA NOT AVAILABLE

(BER012)      ARC 66-709 DASS 0A11A-(R5 V8)+STRUT

(BER013)      DATA NOT AVAILABLE

BETA      ELEVON      BDF LAP

.000      .000      -11.700

.000      15.000      -11.700

.000      .000      -11.700

.000      .000      -11.700

.000      15.000      -11.700

REFERENCE INFORMATION

SREF      6053      50. FT.

LREF      .5935      FT.

BREF      1.1710      IN.

XMRP      12.6255      IN.

YMRP      .0000      IN.

ZMRP      -.3750      IN.

SCALE      .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

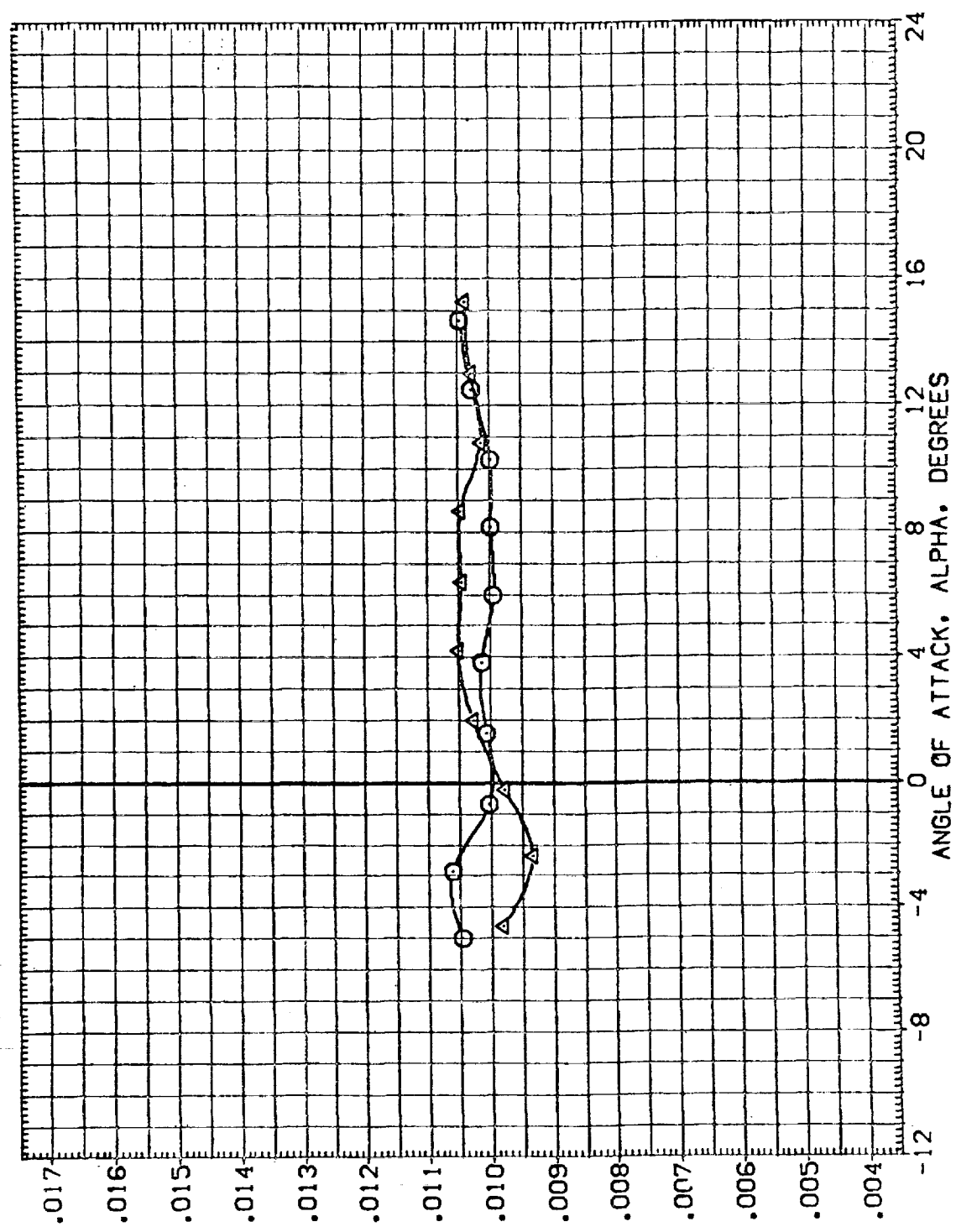


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(EJMACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

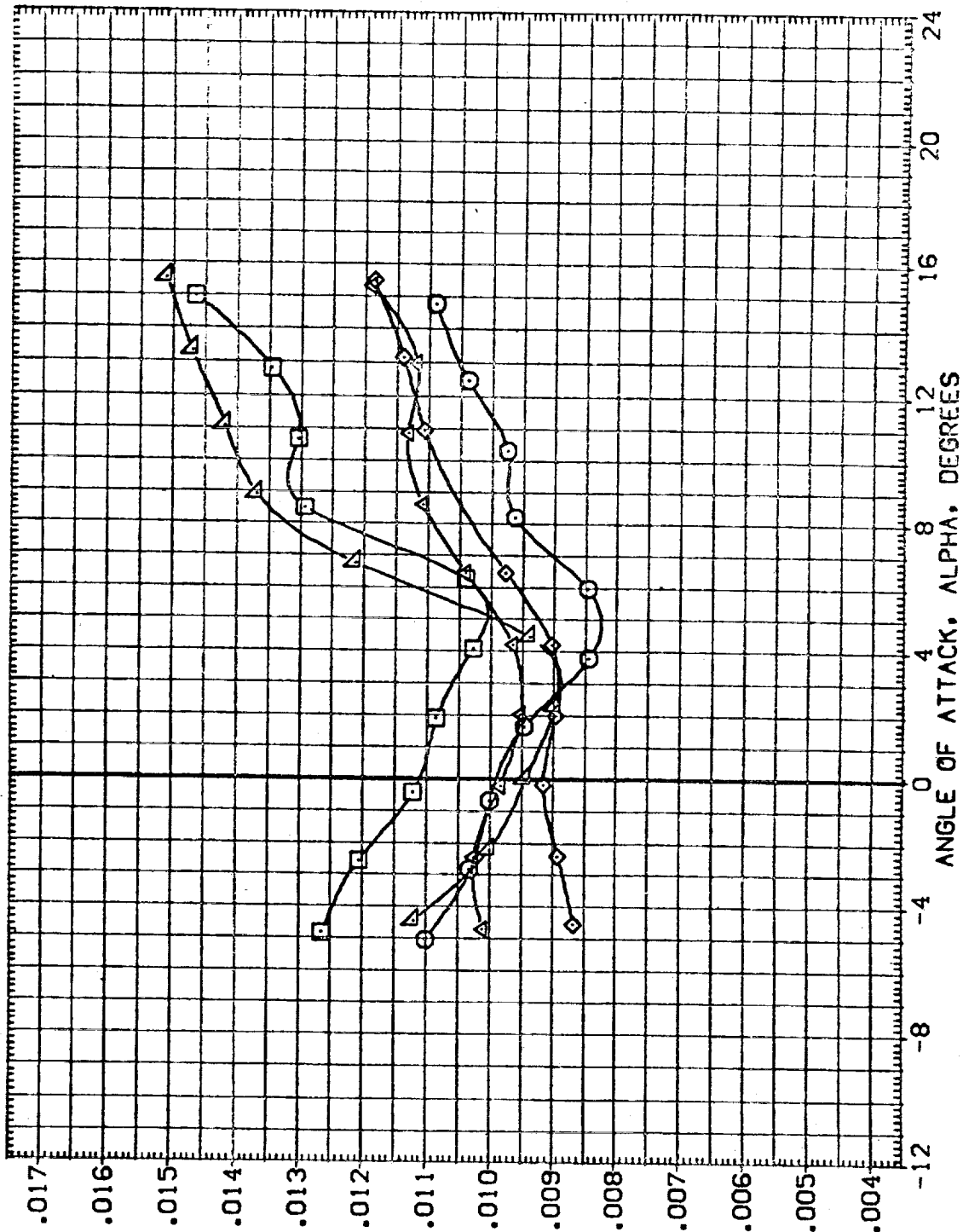


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(BER001)    ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG

(BER003)    DATA NOT AVAILABLE

(BER009)    DATA NOT AVAILABLE

(BER012)    ARC 66-709 QAS9 0A11A-(RS V81)+STRUT

(BER013)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    15.000    -11.700

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFWD

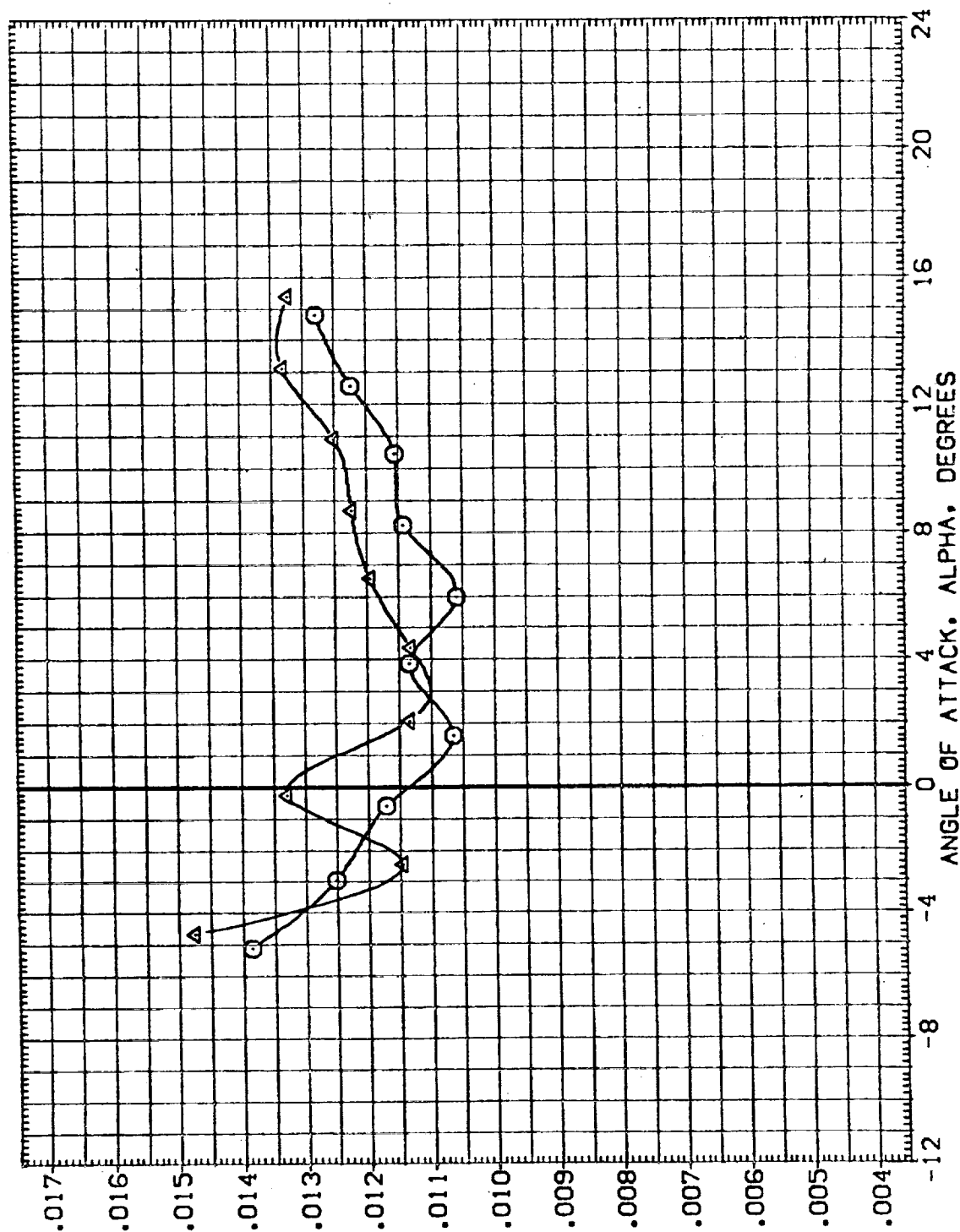


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL  
(BER001)  
(BER003)  
(BER009)  
(BER012)  
(BER013)

CONFIGURATION DESCRIPTION  
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING  
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING  
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT  
ARC 66-709 0A59 0A11A-(RS V81)+STRUT  
ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA  
.000  
.000  
.000  
.000  
.000

ELEVON  
.000  
15.000  
.000  
.000  
15.000

BOFLAP  
-11.700  
-11.700  
-11.700  
-11.700  
-11.700

REFERENCE INFORMATION  
SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWD

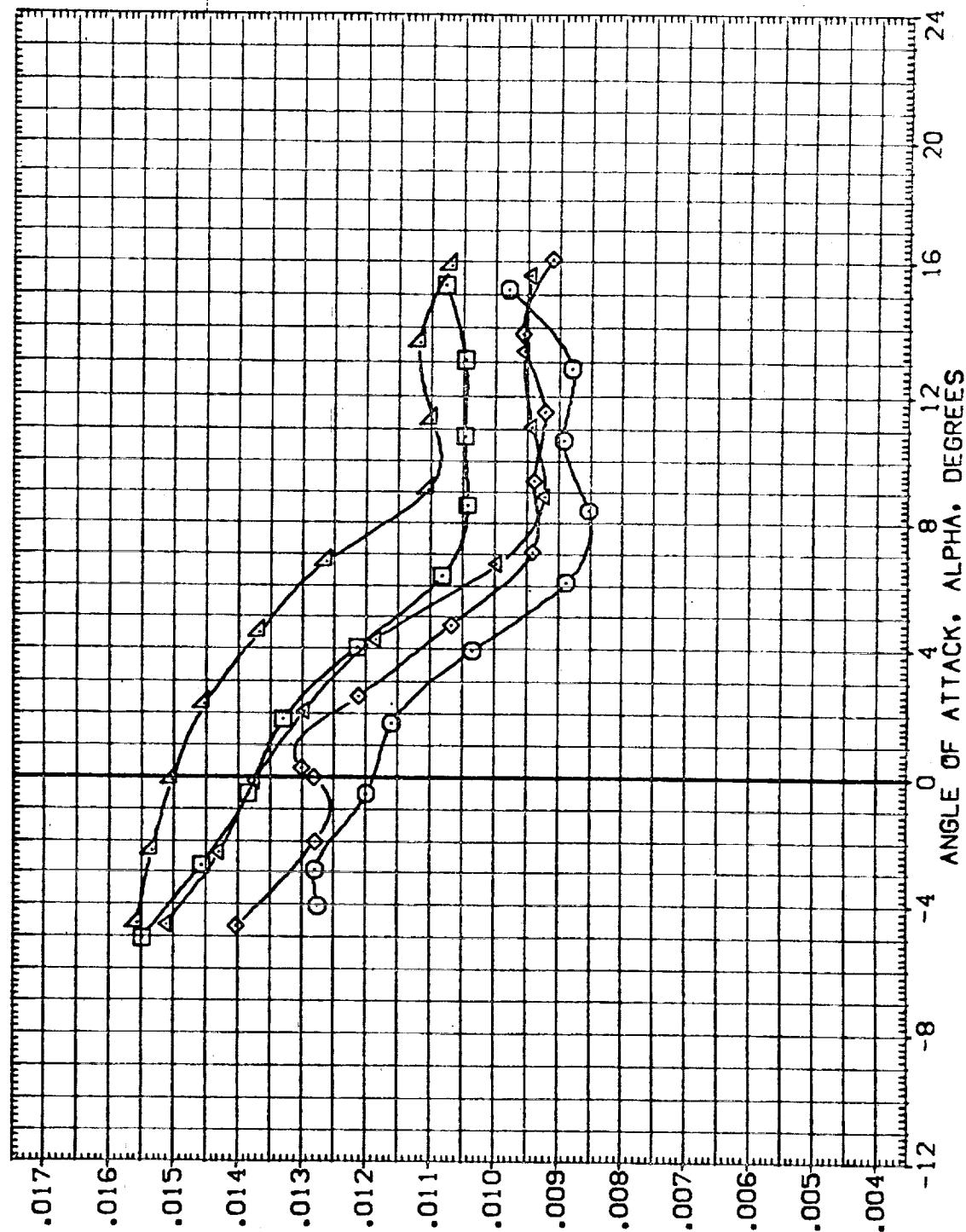


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+QJM STING

(BER003) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+QJM STING

(BER009) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT

(BER012) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

(BER013) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

BETA

ELEVON

BOFLAP

.000

.000

-11.700

.000

15.000

-11.700

.000

.000

-11.700

.000

15.000

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

.6053

.5935

1.1710

12.6255

.0000

-.3750

.0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

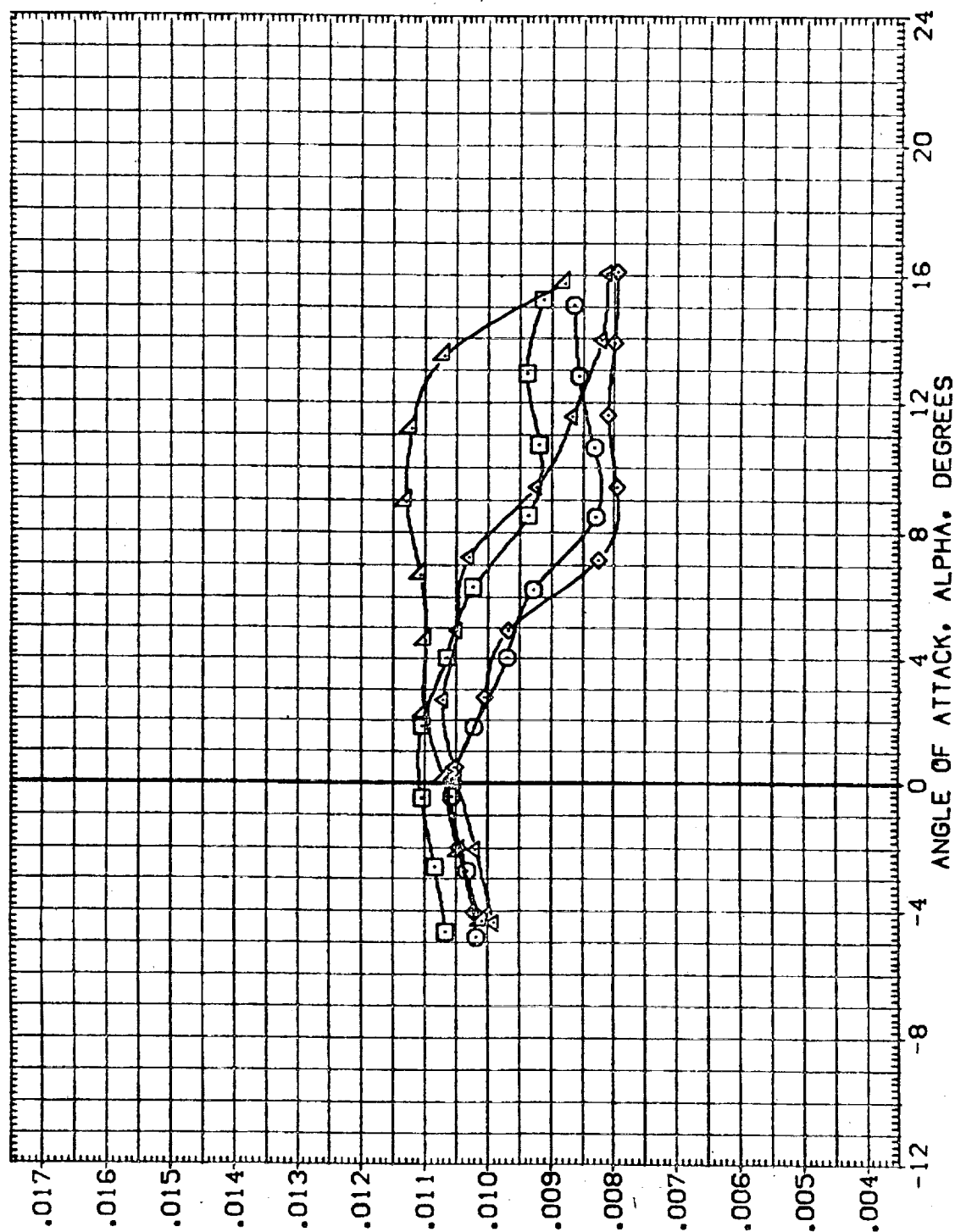



FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL

(BER001)  
(BER003)  
(BER009)  
(BER012)  
(BER013)



	CONFIGURATION	DESCRIPTION
ARC	66-709 QAS9	QA11A-(N24 F8 V8)
ARC	66-709 QAS9	QA11A-(N24 F8 V8)
ARC	66-709 QAS9	QA11A-(N24 F8 V8)
ARC	66-709 QAS9	QA11A-(R5 V8)
ARC	66-709 QAS9	QA11A-(R5 V8)

5 VB1)+STRUT+DUM STNG  
5 VB1)+STRUT+DUM STNG  
5 VB1)+STRUT  
0)+STRUT  
0)+STRUT

BETA	ELEVON	80FLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BRF	1.1710 FT.
XRPR	12.6255 IN.
YRPR	.0000 IN.
ZRPR	-.3750 IN.
SCALE	.0150

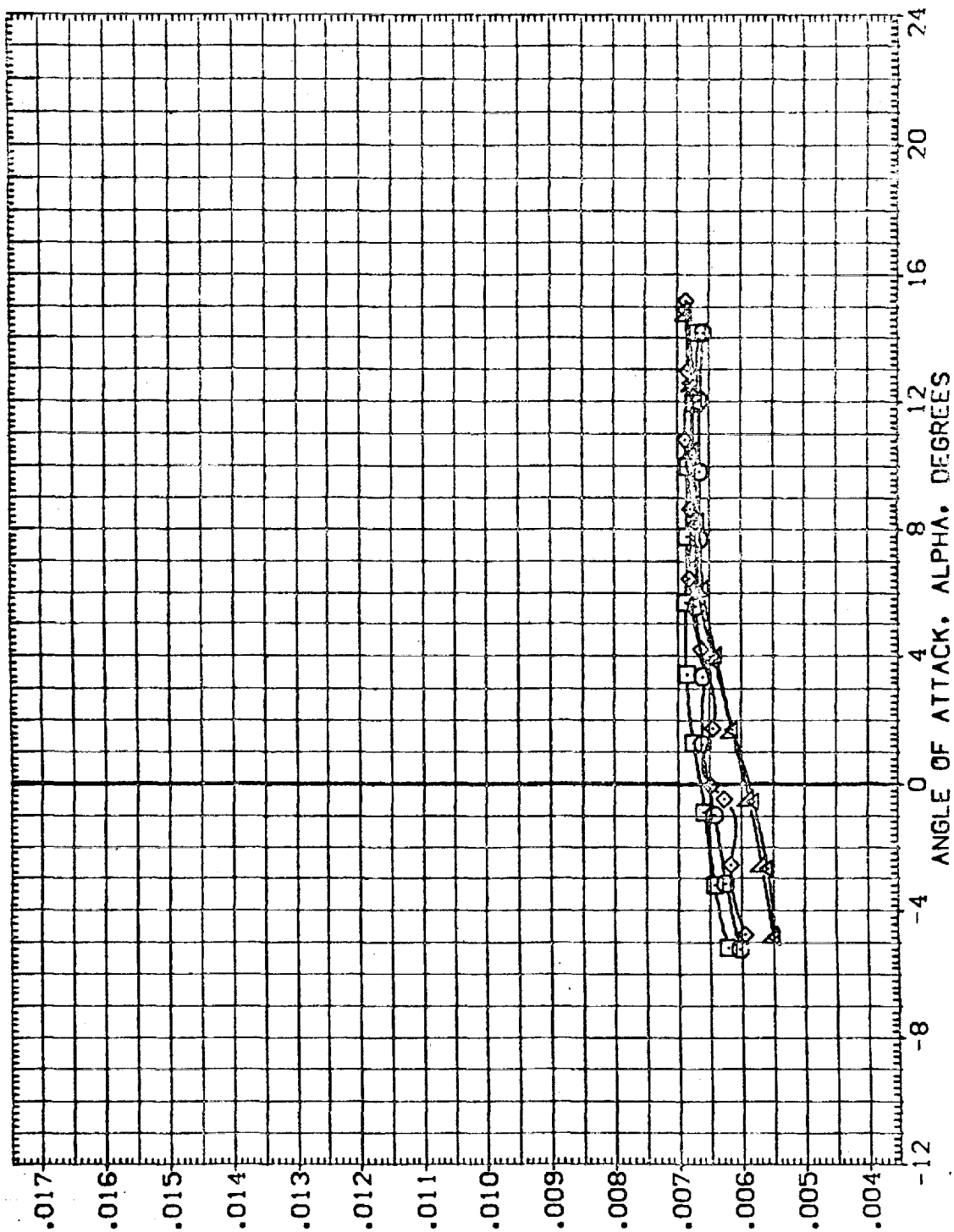


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

[[J]]MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

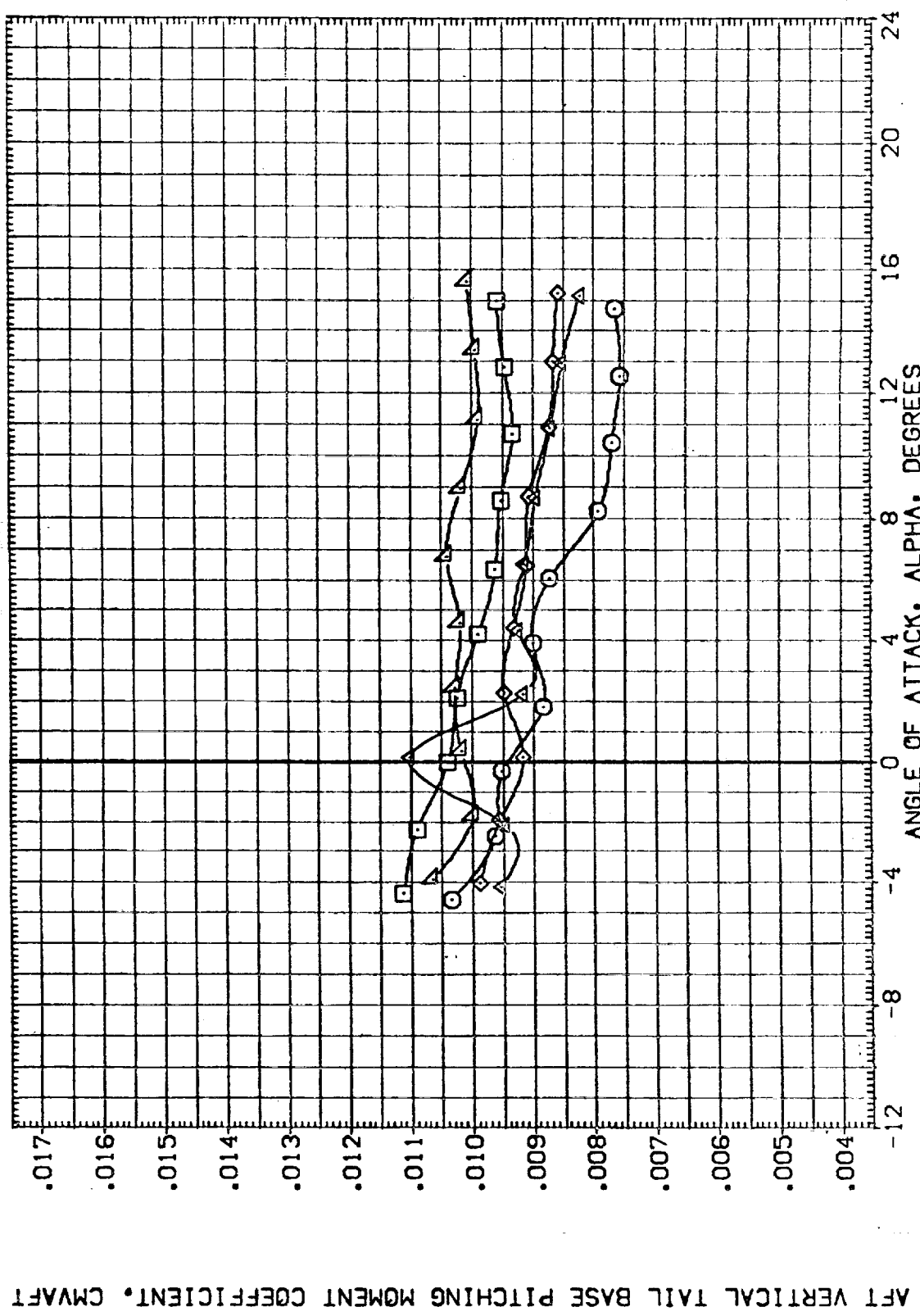


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

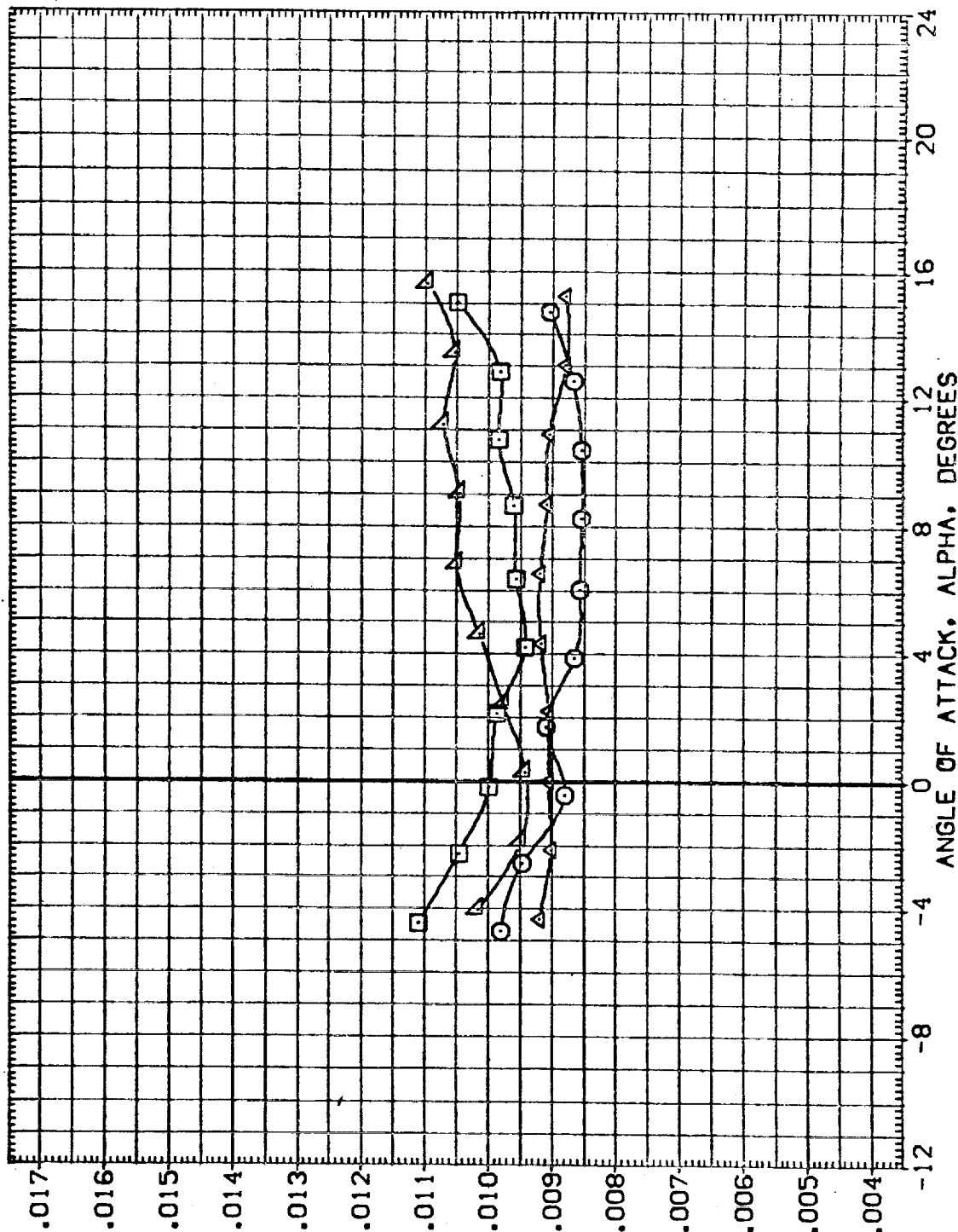
(BER001) ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STING  
 (BER003) ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STING  
 (BER009) DATA NOT AVAILABLE  
 (BER012) ARC 66-709 0A59 0A11A-(R5 V81)+STRUT  
 (BER013) ARC 66-709 0A59 0A11A-(R5 V81)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700  
 15.000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700  
 15.000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150



AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

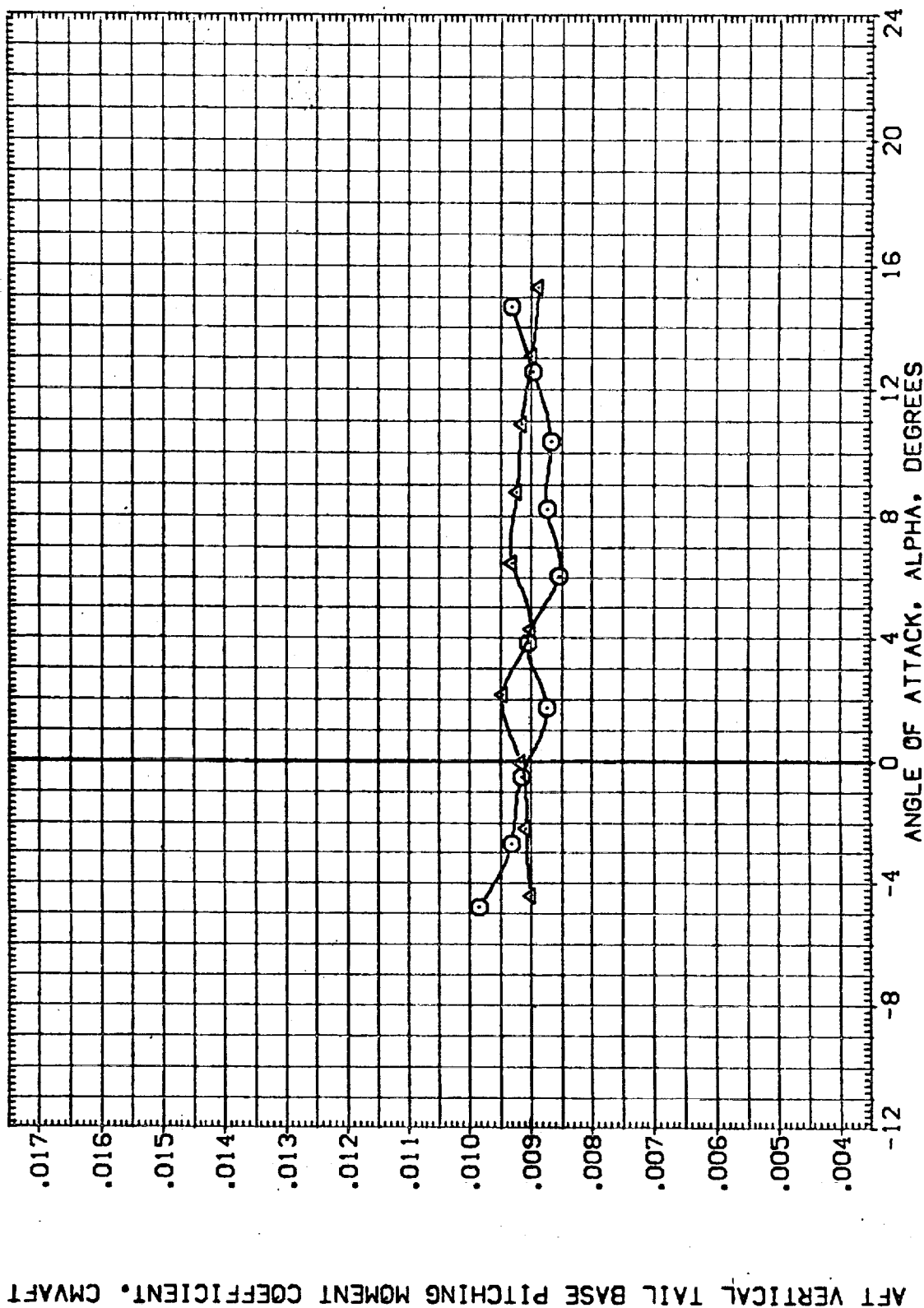


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 CA111A-(N24 RS V8)+STRUT+QJM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 QAS9 CA111A-(N24 RS V8)+STRUT+QJM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 CA111A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 CA111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 QAS9 CA111A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

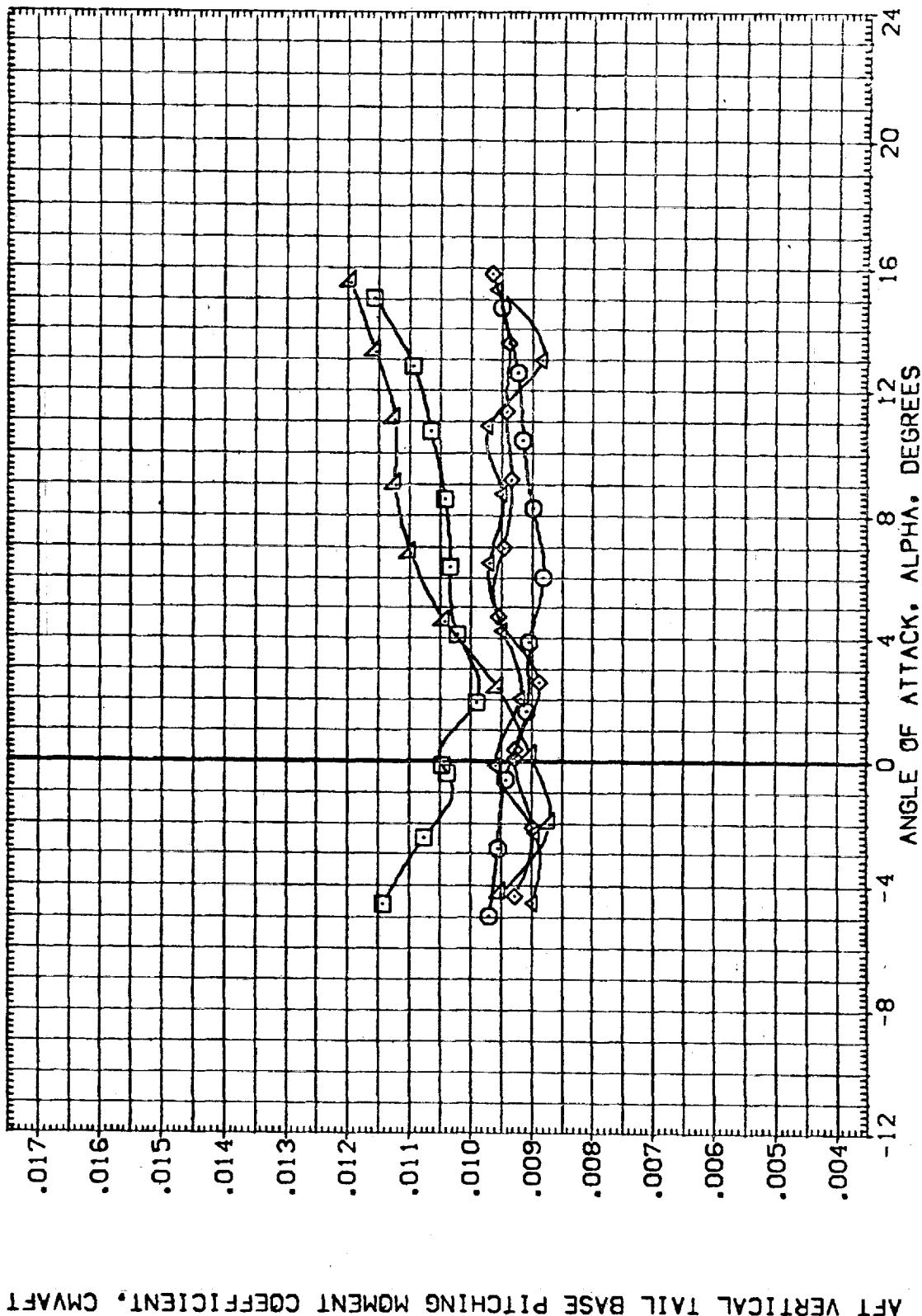


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

COMACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 OAS9 OA11A-(N24 RS V8)-STRUT+QJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 OAS9 OA11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

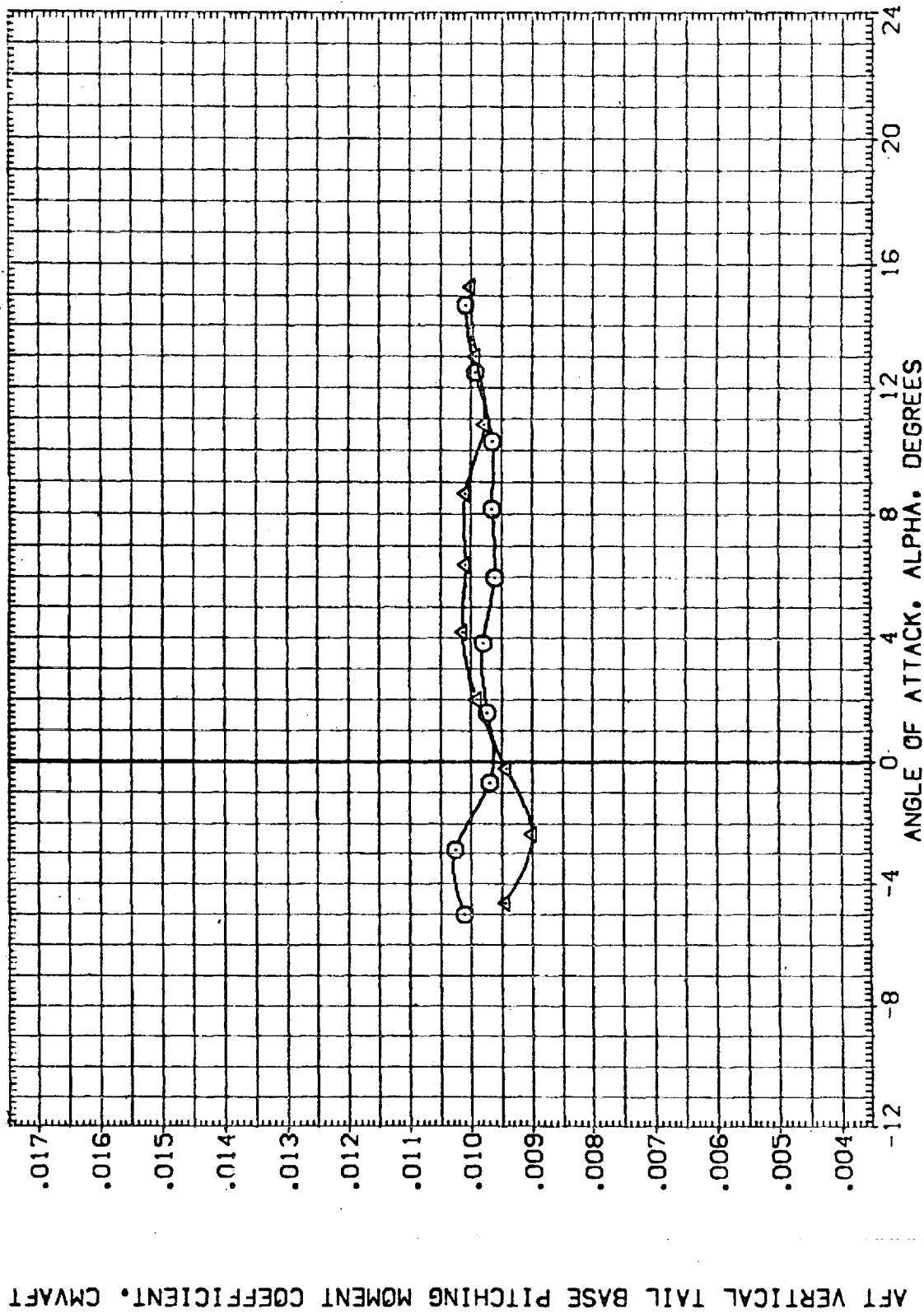


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

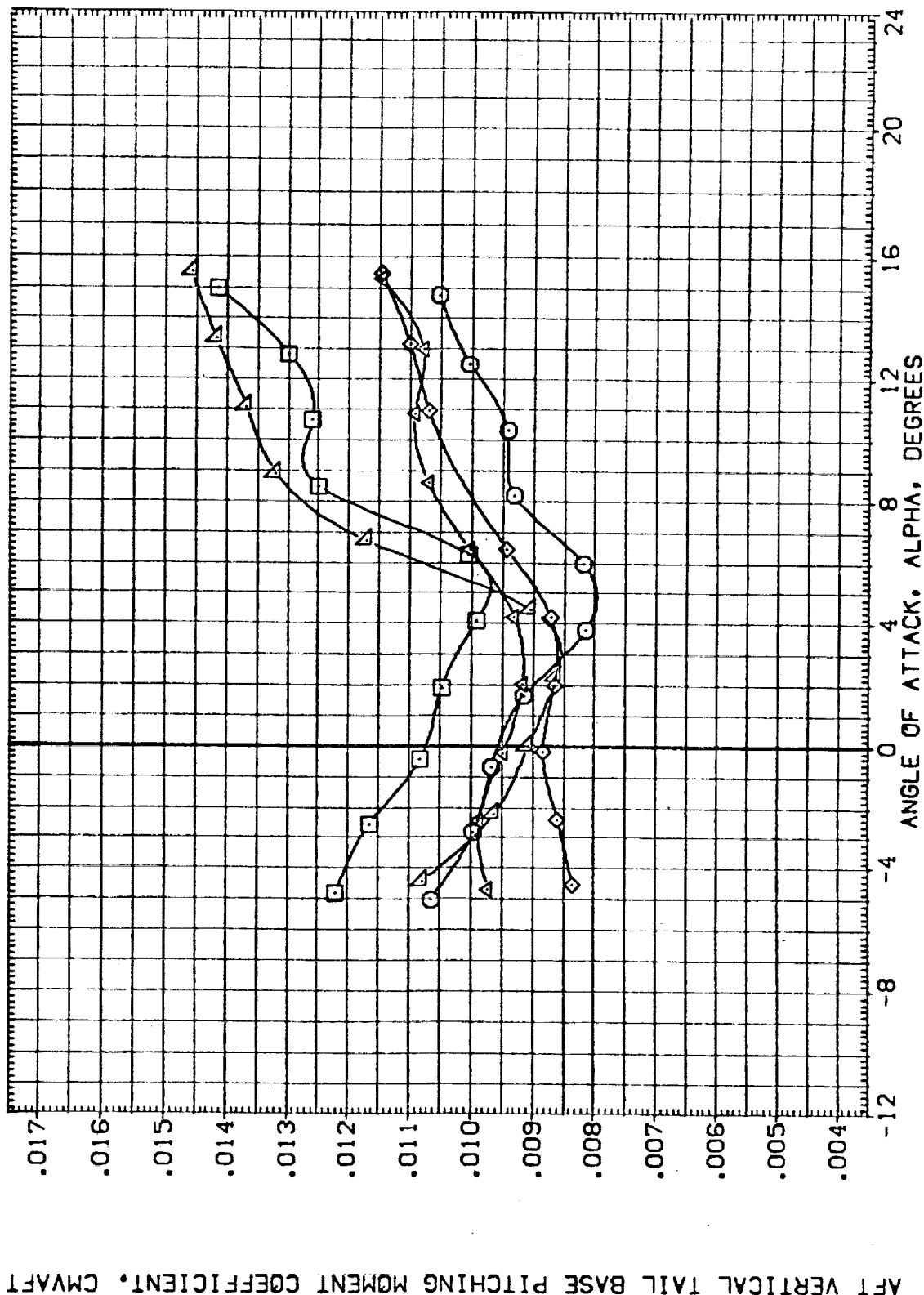
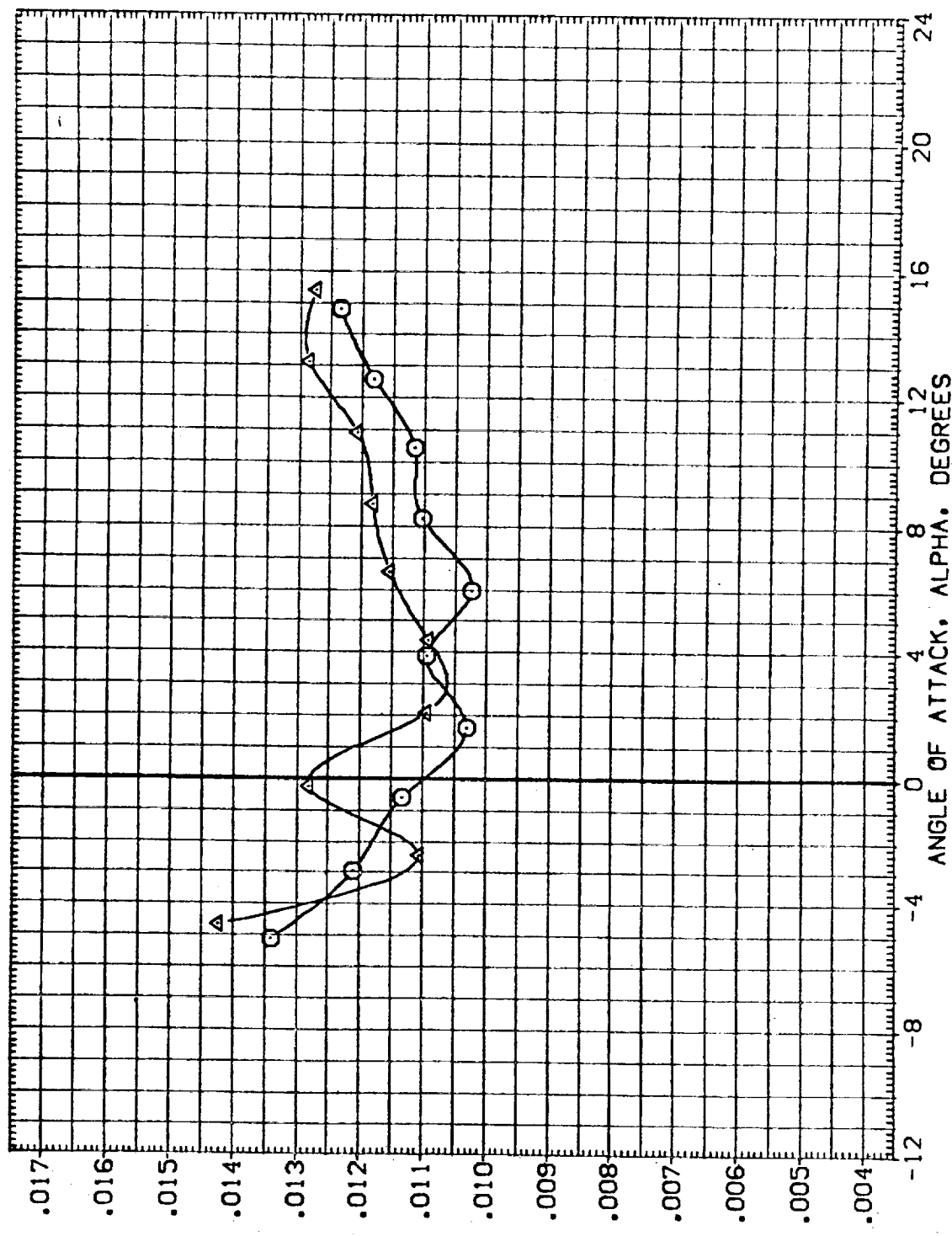


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0459 0A11A-(N24 RS V81)+STRUT+OUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0459 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

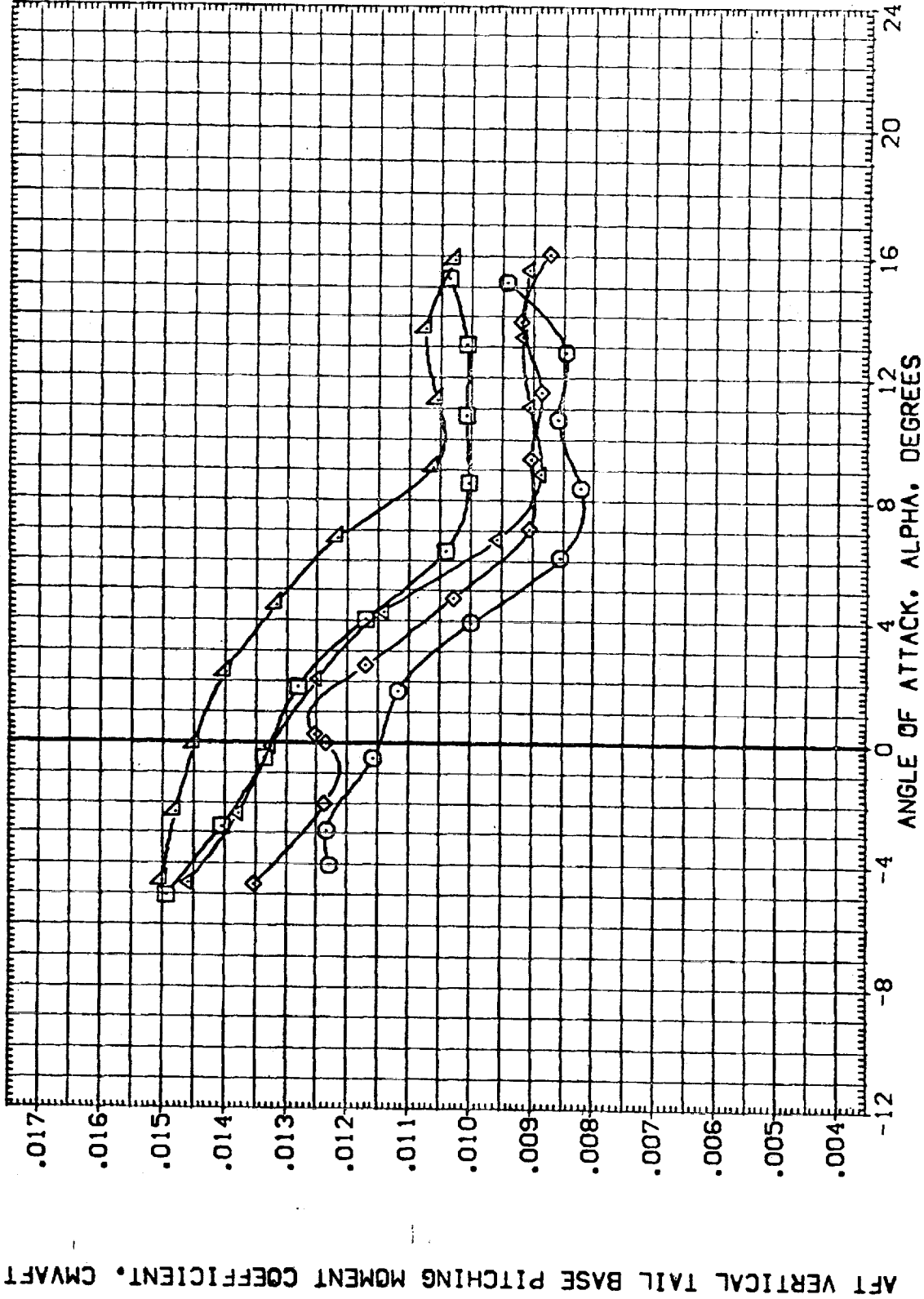


AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CM<sub>yft</sub>

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

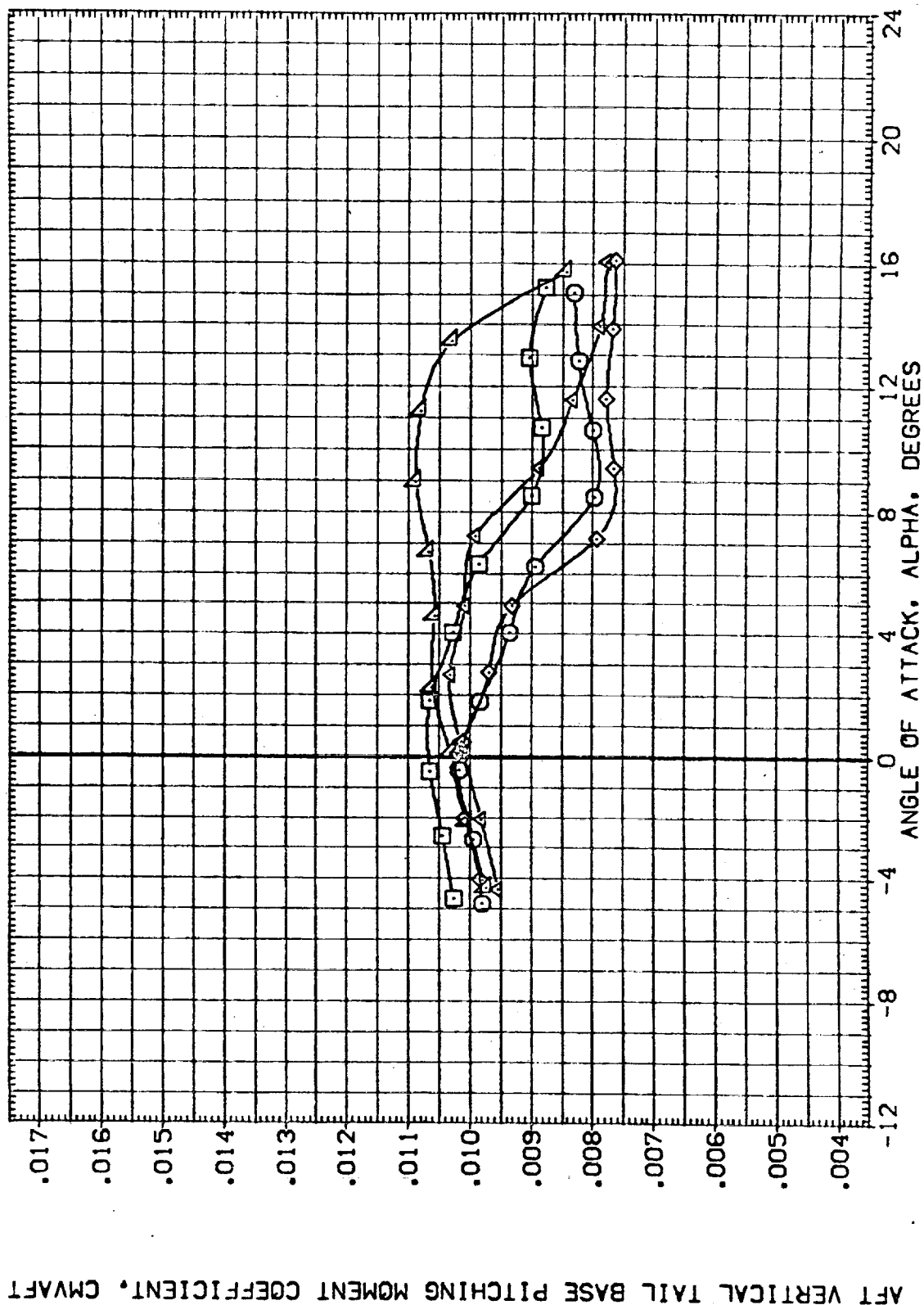


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+0JM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+0JM STNG	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

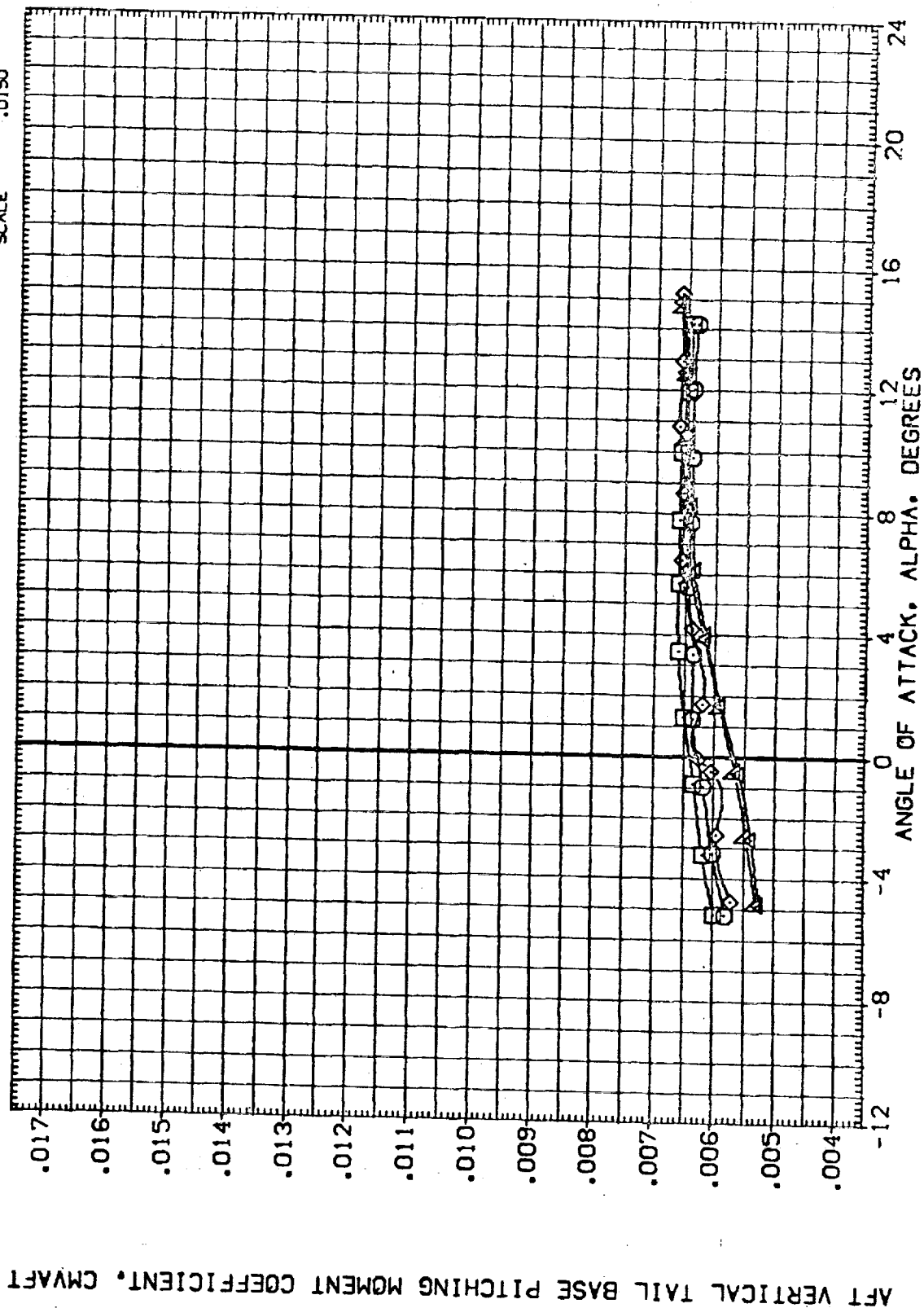


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

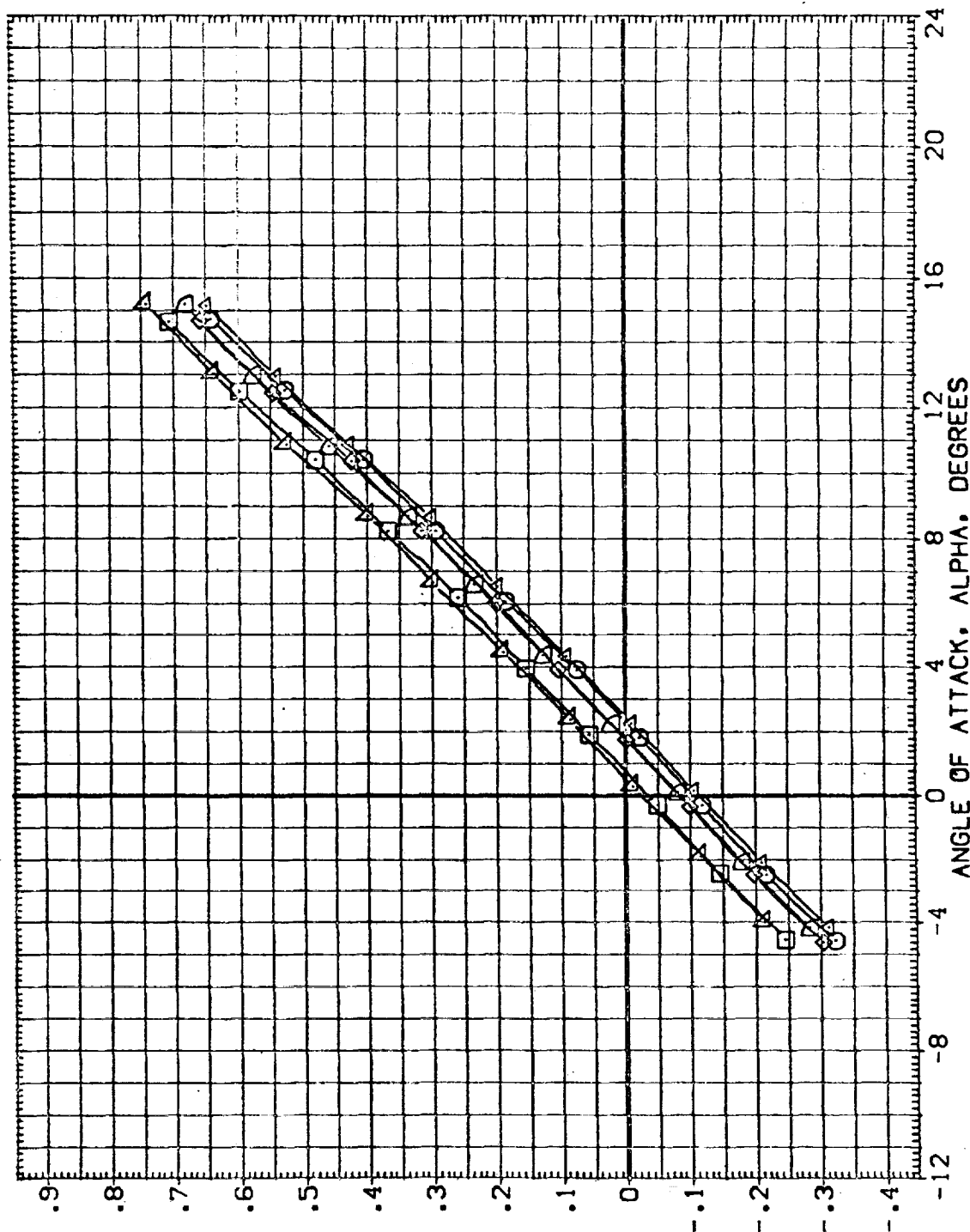
(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

REFERENCE INFORMATION

ANGLE OF ATTACK, ALPHA, DEGREES



ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	XMRP 12.6235 IN.
(CER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

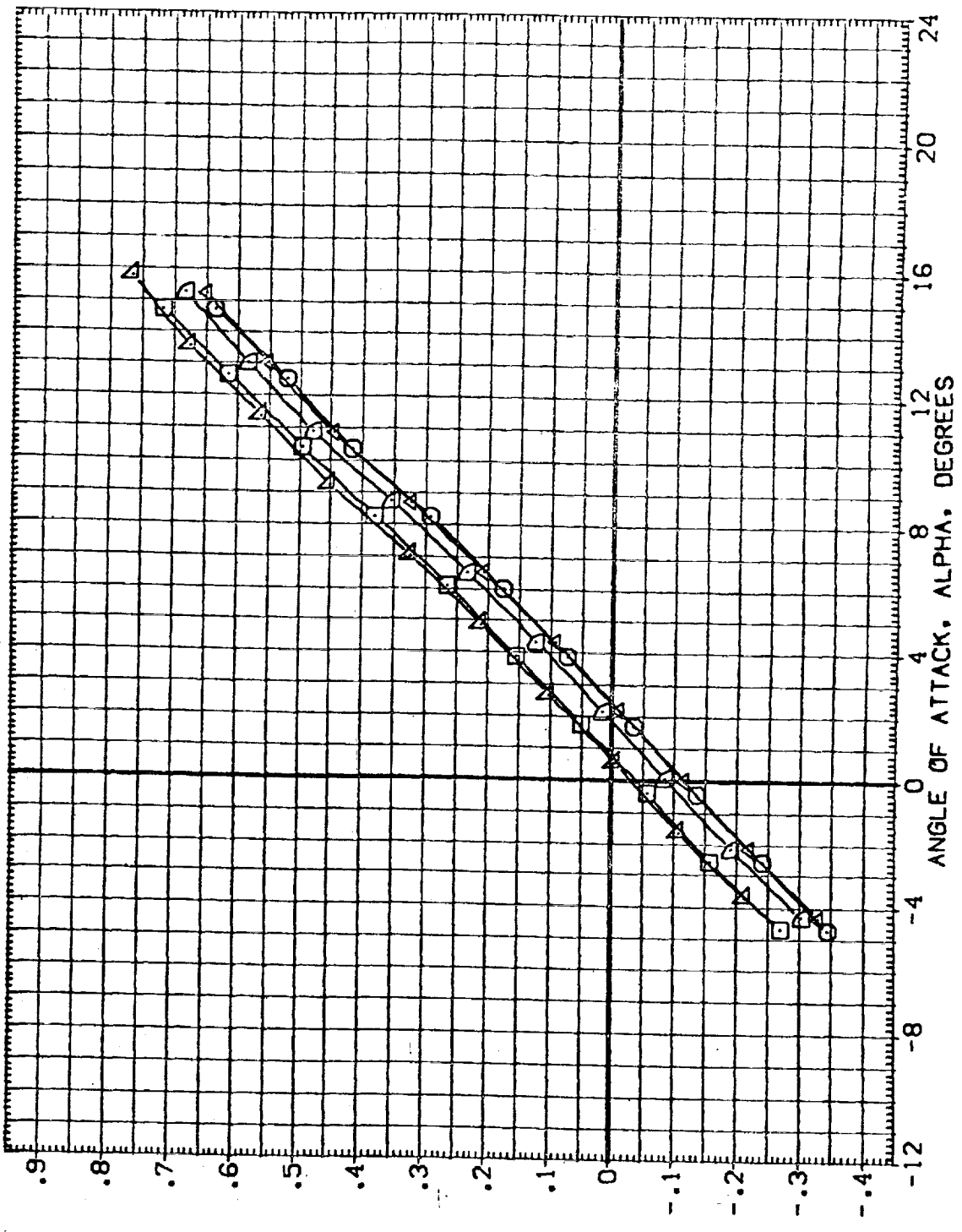


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+0JM STING

(CER005) DATA NOT AVAILABLE

(CER006) DATA NOT AVAILABLE

(CER012) ARC 66-709 QAS9 0A11A-(RS V8)-STRUT

(CER014) DATA NOT AVAILABLE

(CER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

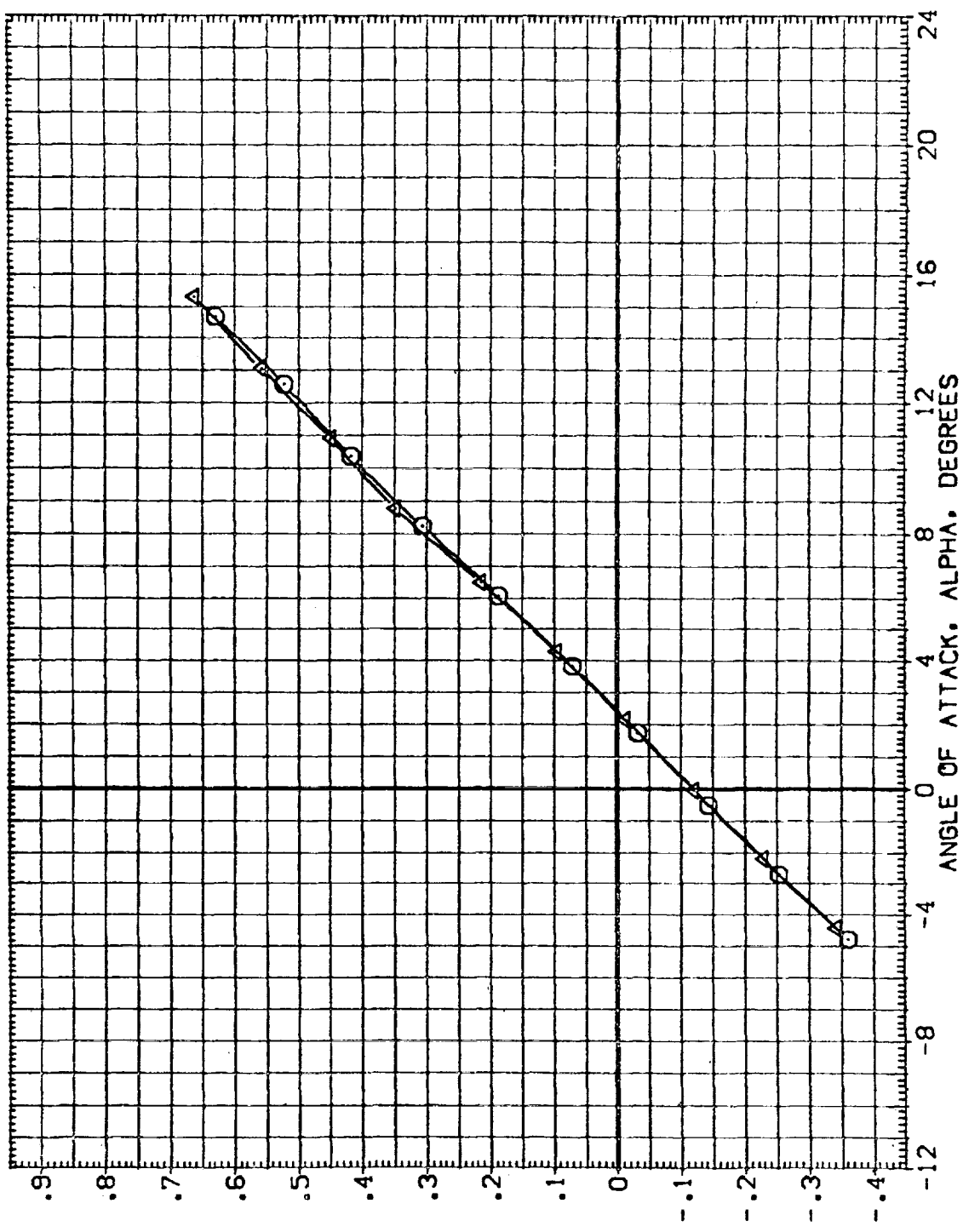


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOE LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

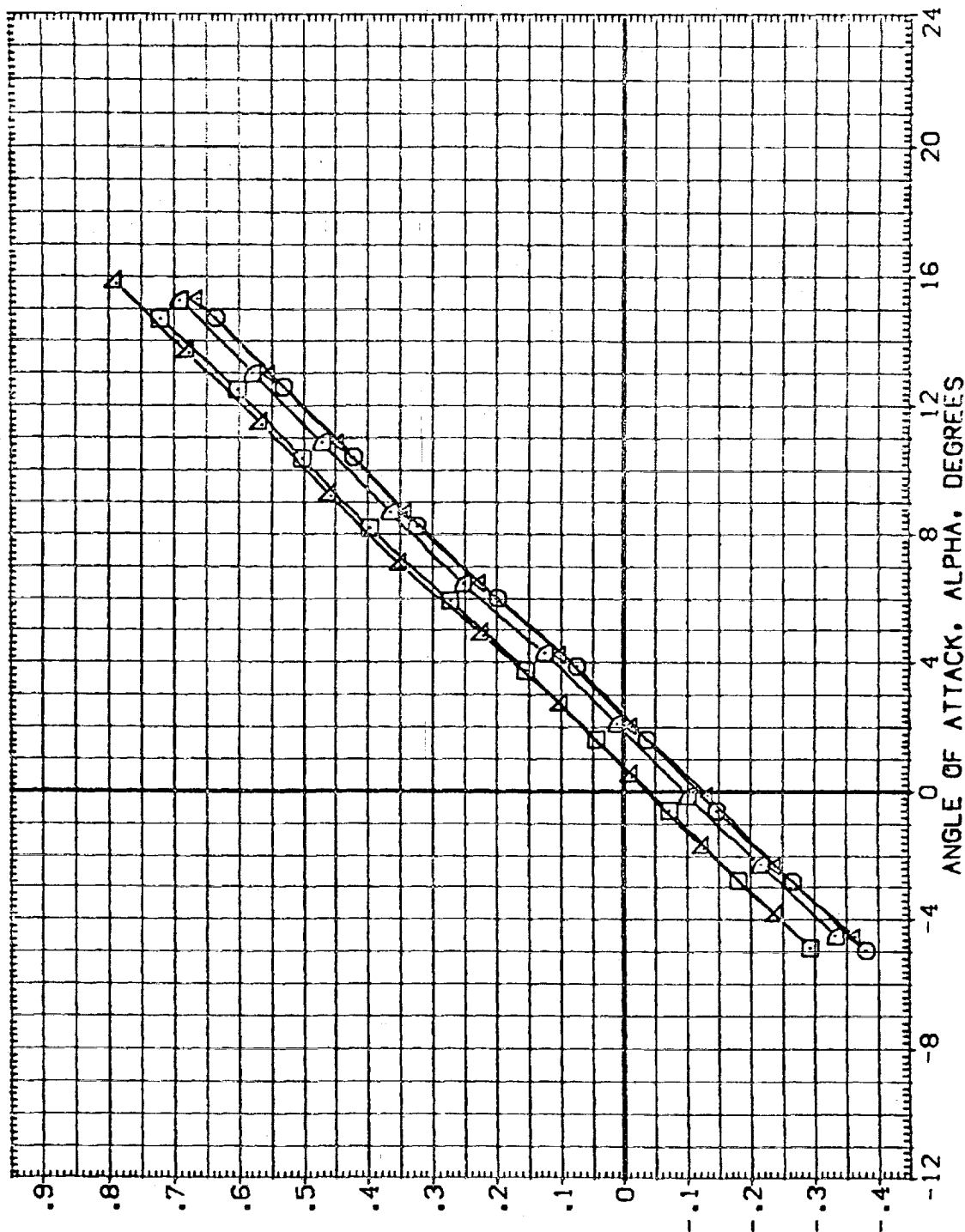


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO01)	ARC 66-709 0A59 0A111A-(N24 RS V81)*STRUT+OLM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO05)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CERO06)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CERO12)	ARC 66-709 0A59 0A111A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO14)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CERO15)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

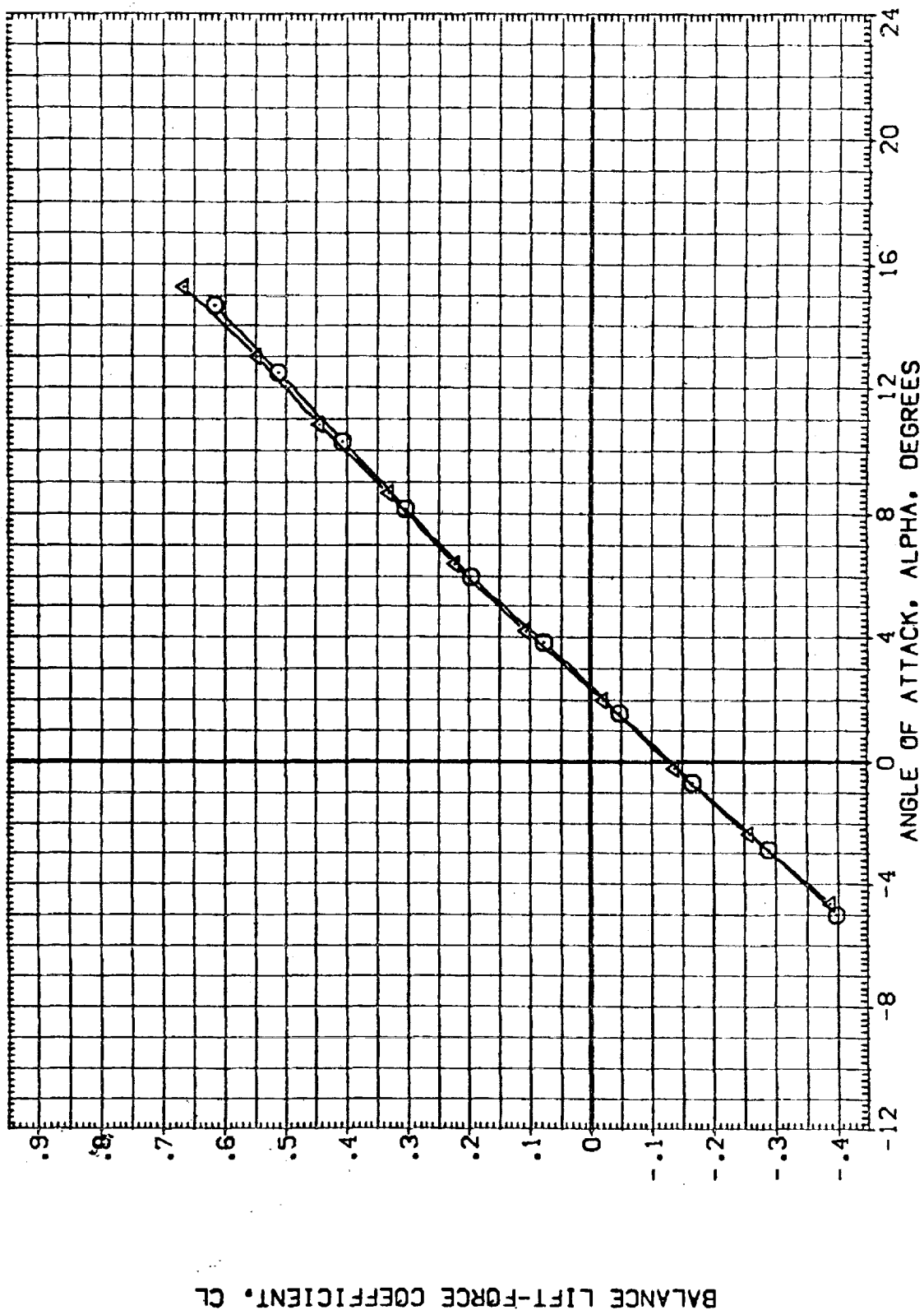


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CERO01)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CERO05)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CERO06)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(CERO12)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CERO14)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CERO15)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

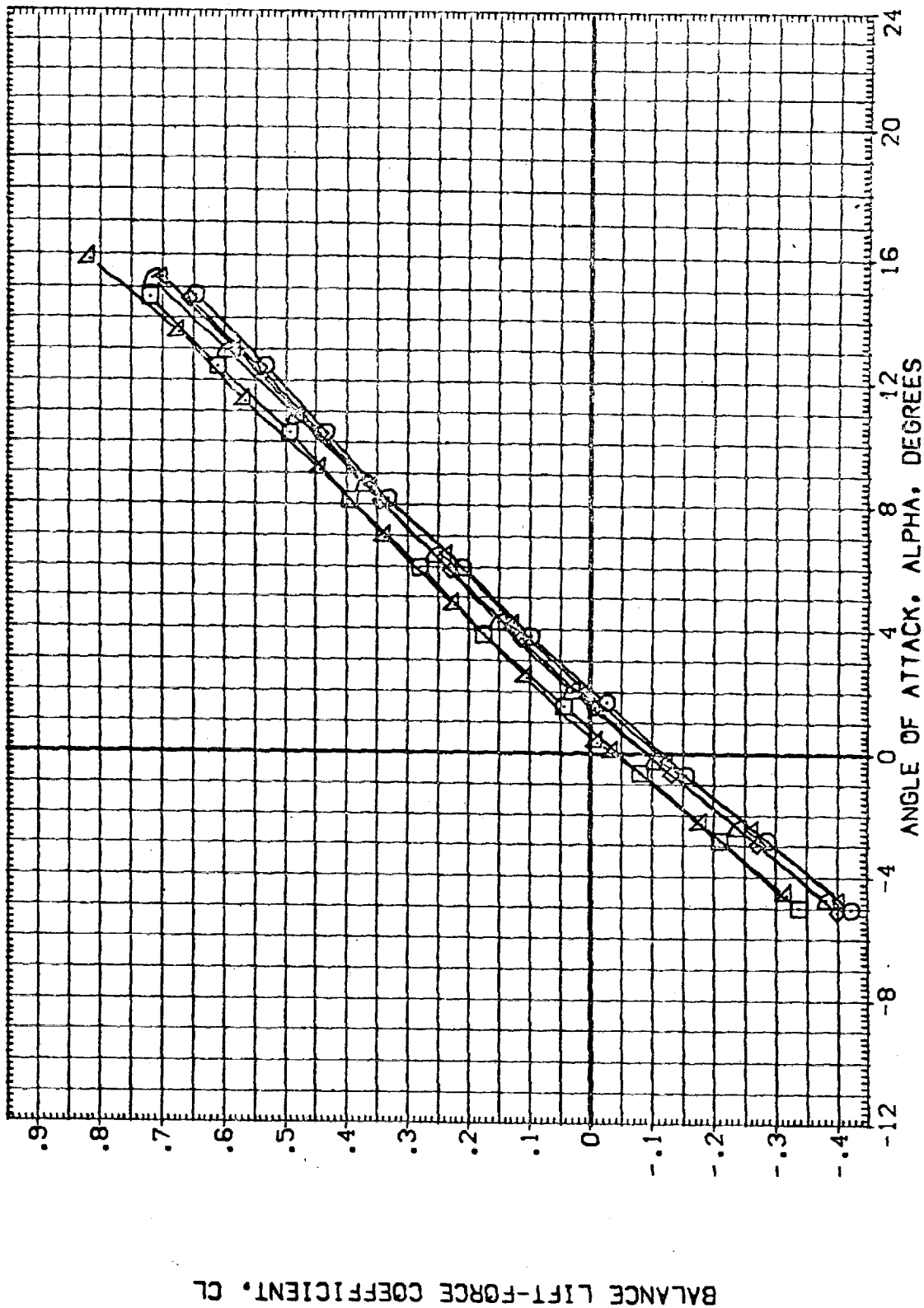


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 65-709 DASS DAI11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 65-709 DASS DAI11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

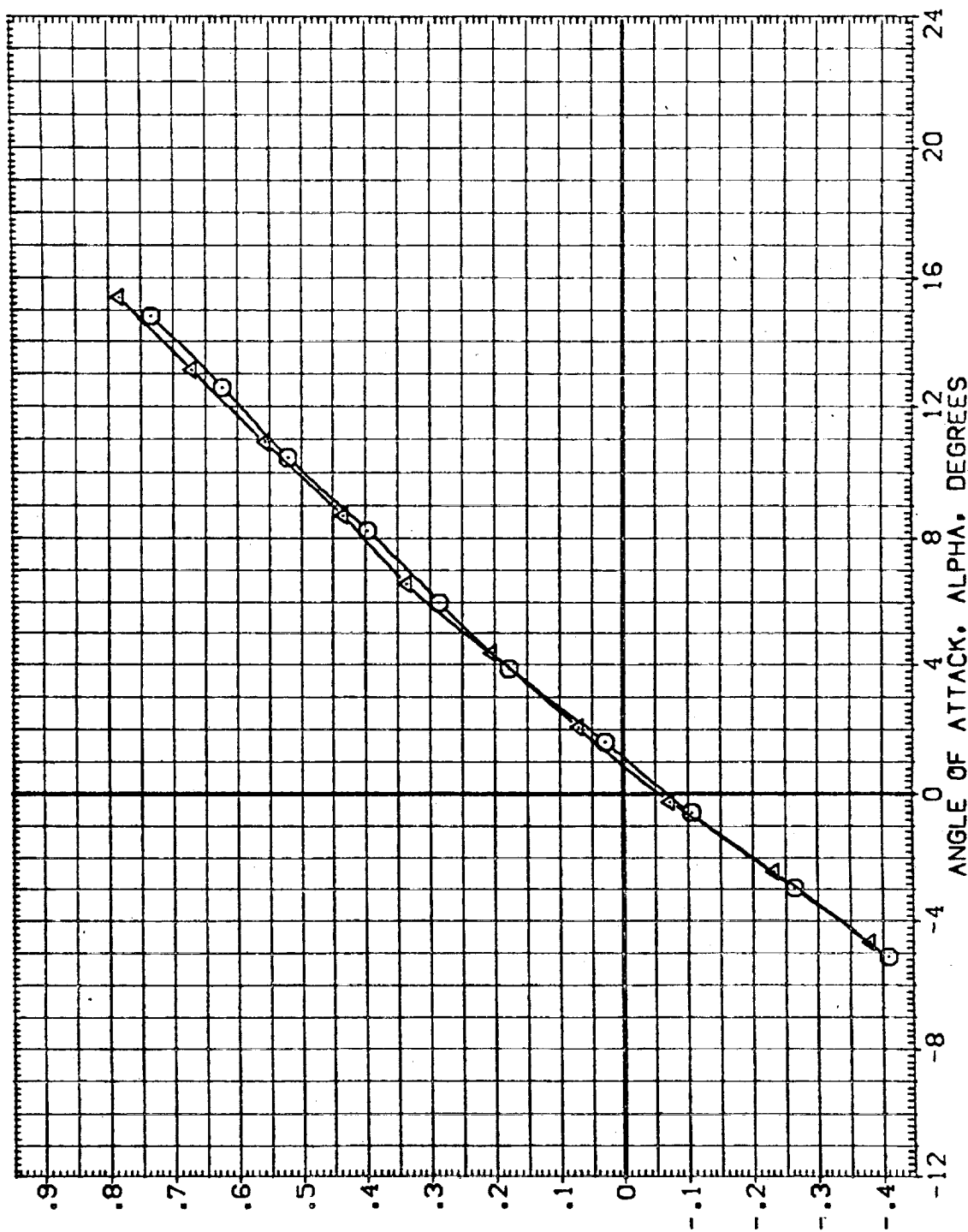


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

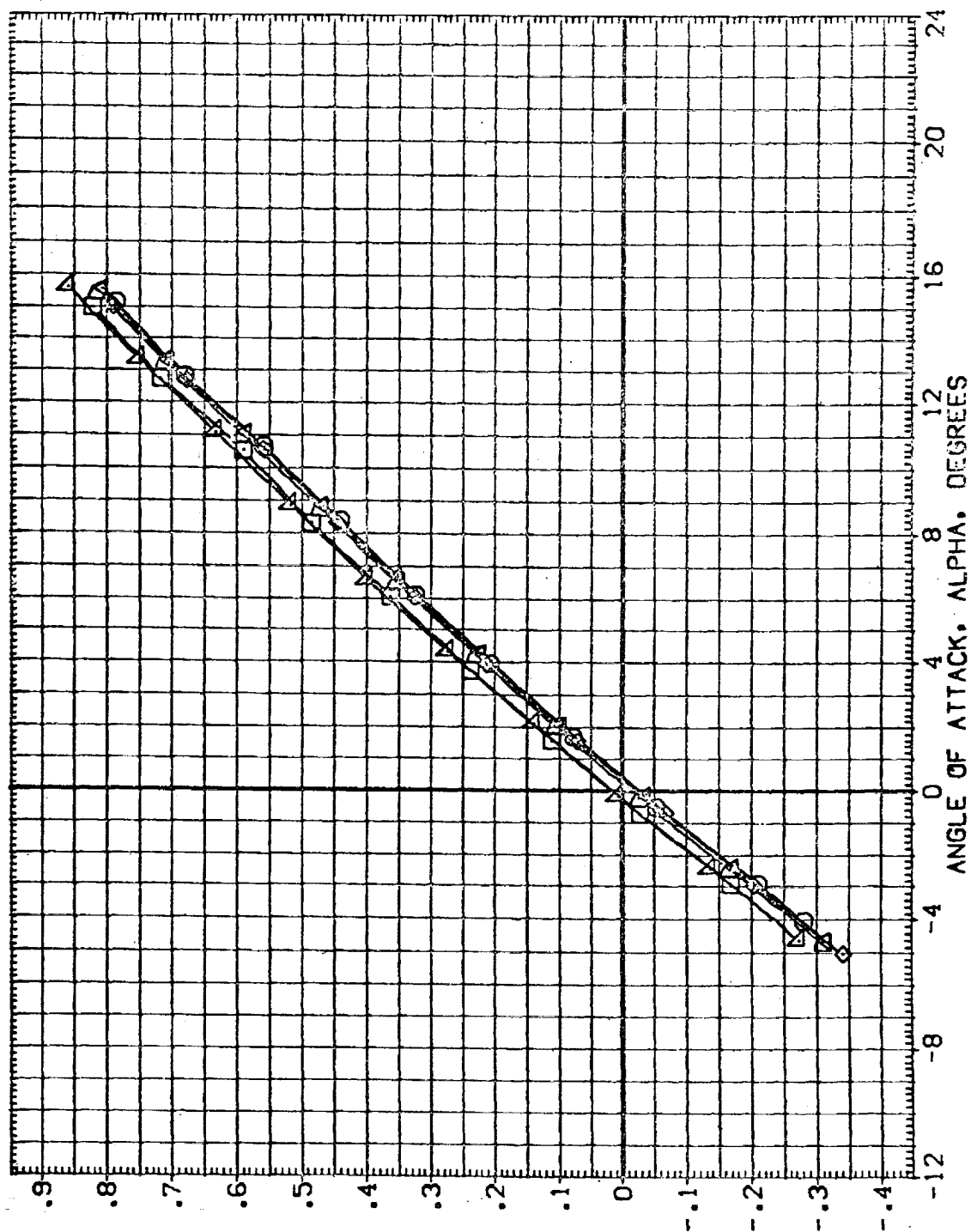


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

BETA	.000	.000	-11.700
ELEVON	.000	.000	16.300
BOFLAP	.000	.000	.000
	.000	.000	-11.700
	.000	.000	16.300
	.000	.000	.000

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24	RS V8)+STRUT+DUM	SING
ARC 66-709	0A59	0A11A-(N24	RS V8)+STRUT+DUM	SING
DATA NOT AVAILABLE				
ARC 66-709	0A59	0A11A-(RS	V8)+STRUT	
ARC 66-709	0A59	0A11A-(RS	V8)+STRUT	
ARC 66-709	0A59	0A11A-(RS	V8)+STRUT	

DATA SET SYMBOL

(CER001)	□
(CER005)	○
(CER006)	×
(CER012)	△
(CER014)	◇
(CER015)	▽

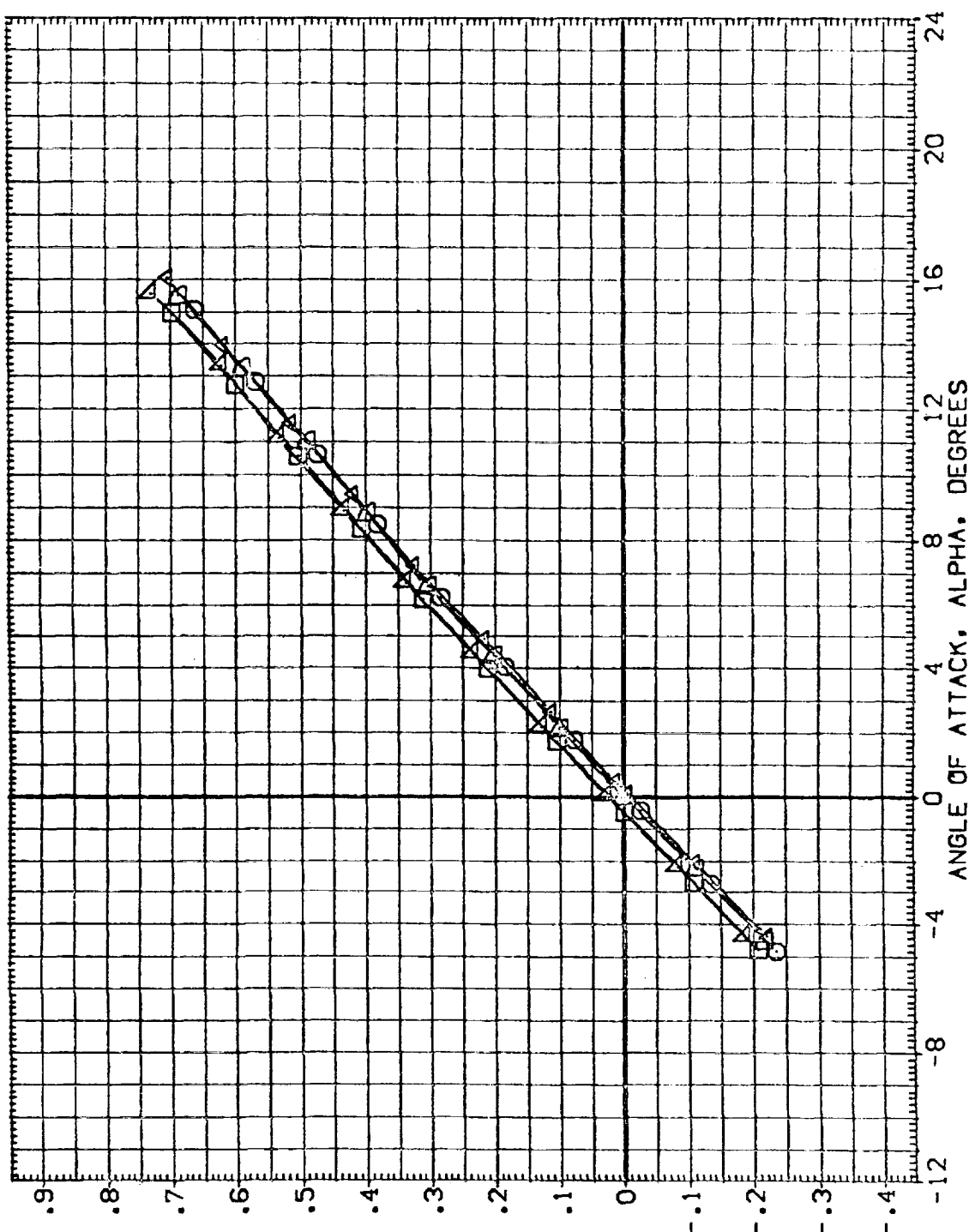


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

CLIMACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	.000	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

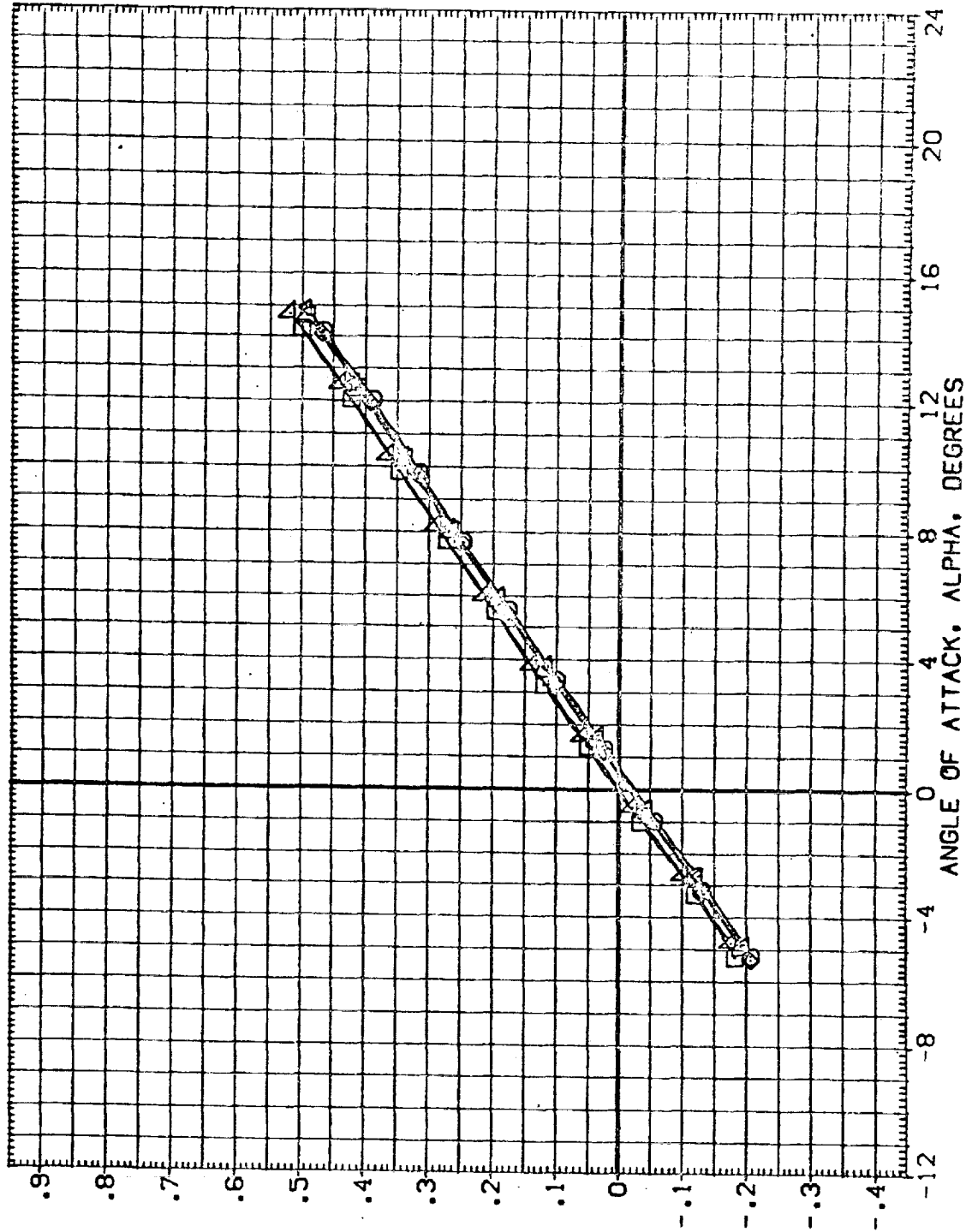


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

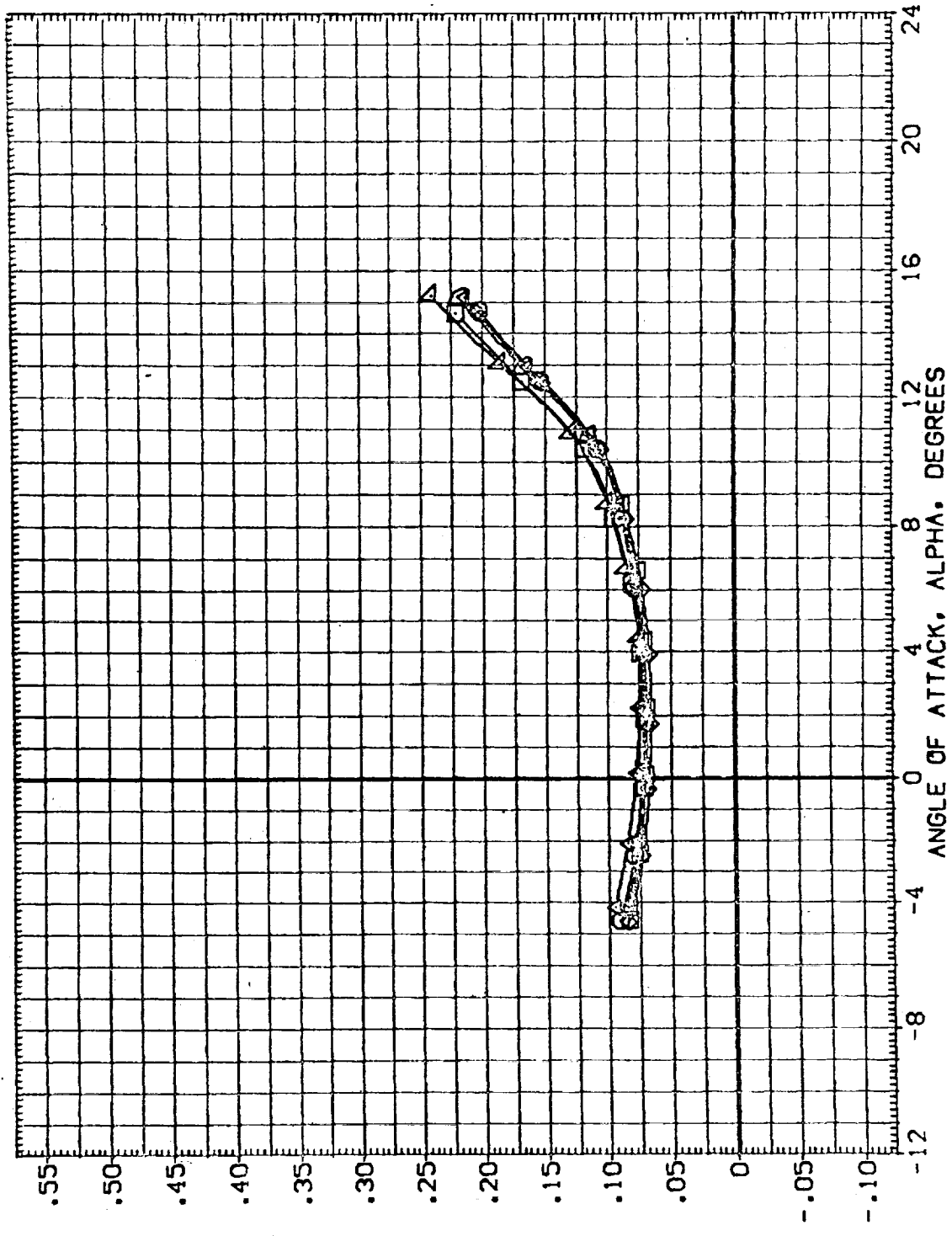


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

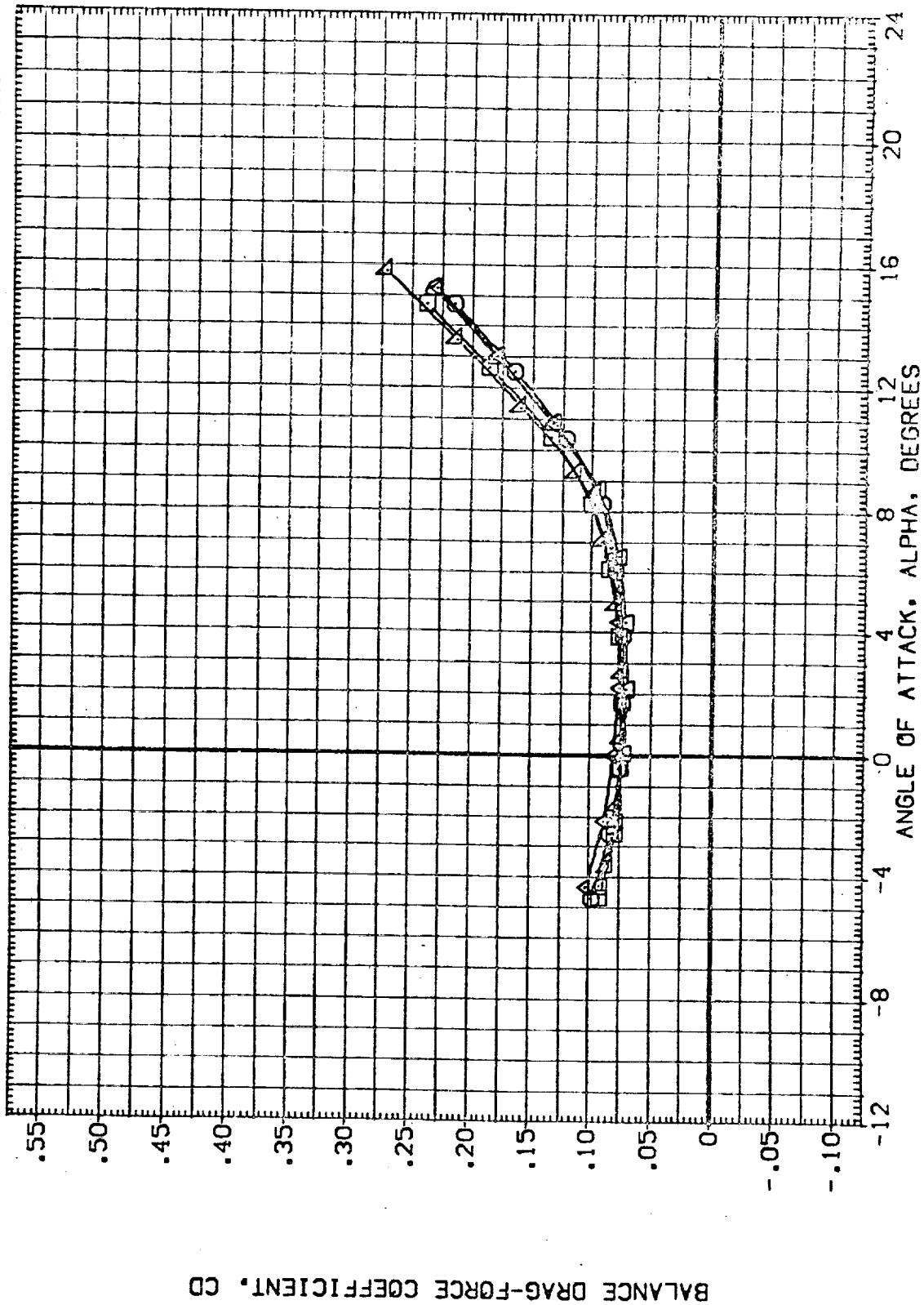


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 0A11A-(N24 R5 V81)+STRUT+DJ4 STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 OAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

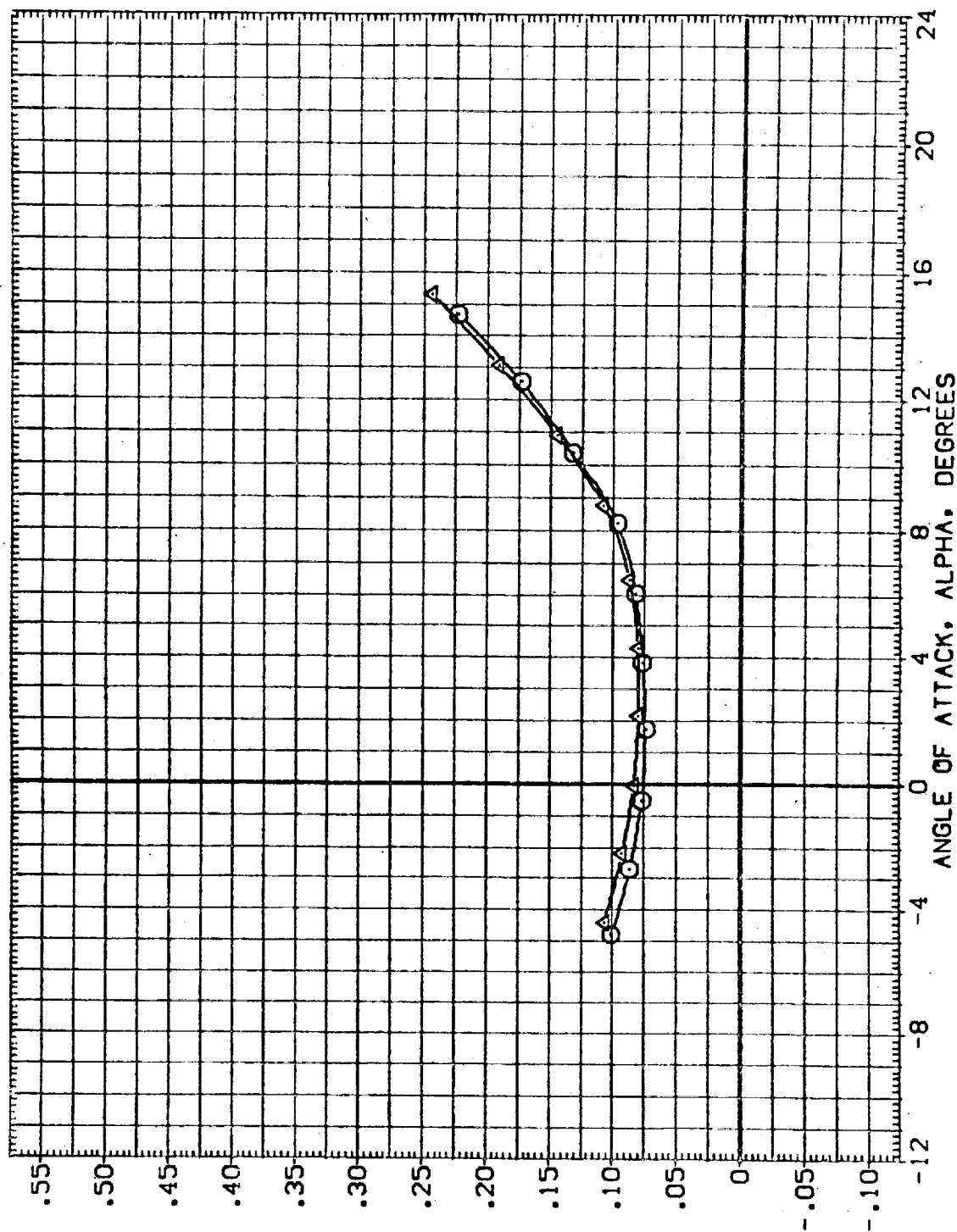


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

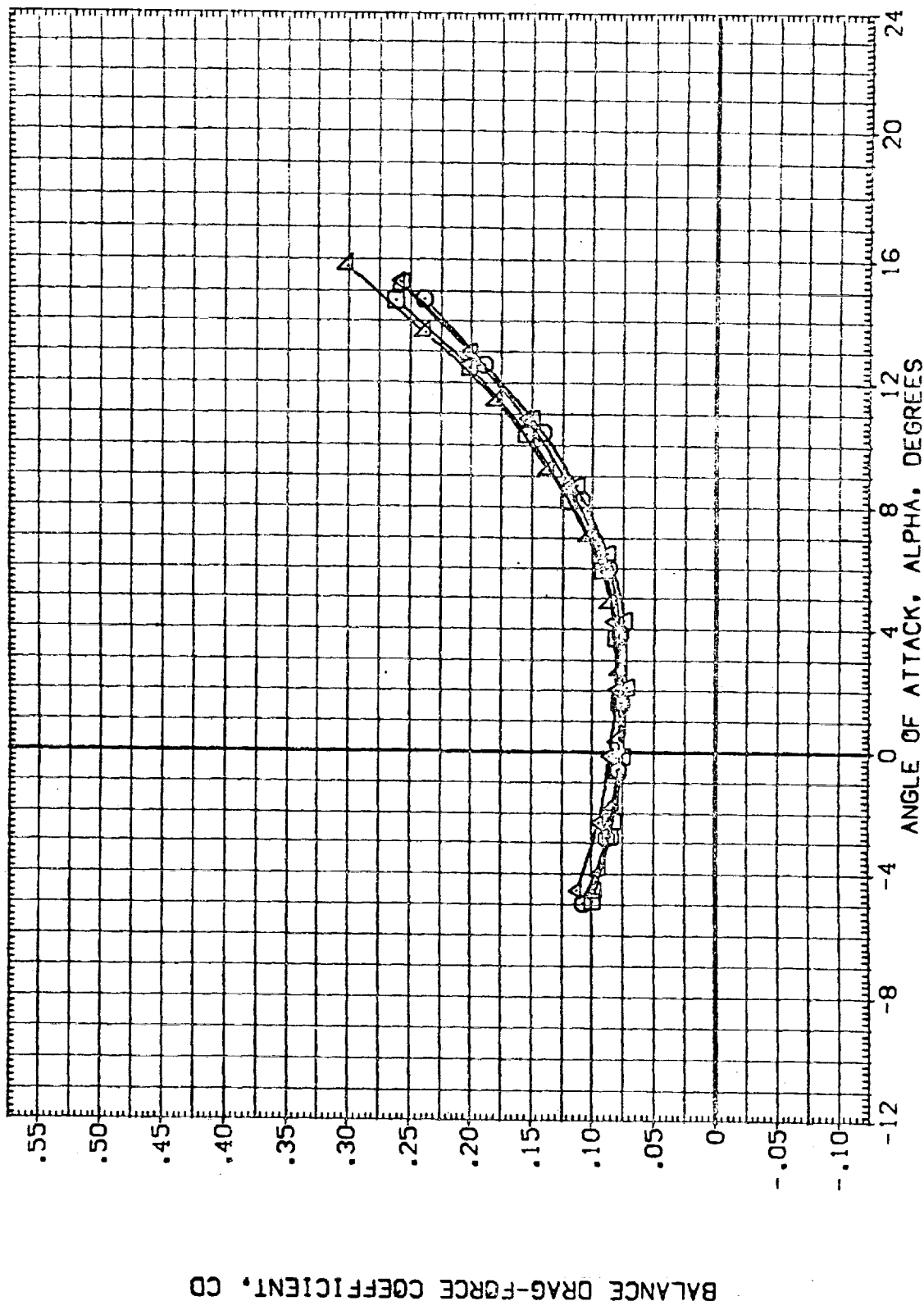


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(CER001)    ARC 66-709 0A59 0A111A-(N24 RS V8)-STRUT+DUM STING

(CER005)    DATA NOT AVAILABLE

(CER006)    DATA NOT AVAILABLE

(CER012)    ARC 66-709 0A59 0A111A-(RS V8)-STRUT

(CER014)    DATA NOT AVAILABLE

(CER015)    DATA NOT AVAILABLE

BETA    ELEVON    BDF LAP

.000    .000    -11.700

.000    .000    16.300

.000    .000    .000

.000    .000    -11.700

.000    .000    16.300

.000    .000    .000

REFERENCE INFORMATION

SREF    50.53    50. FT.

LREF    .5935    FT.

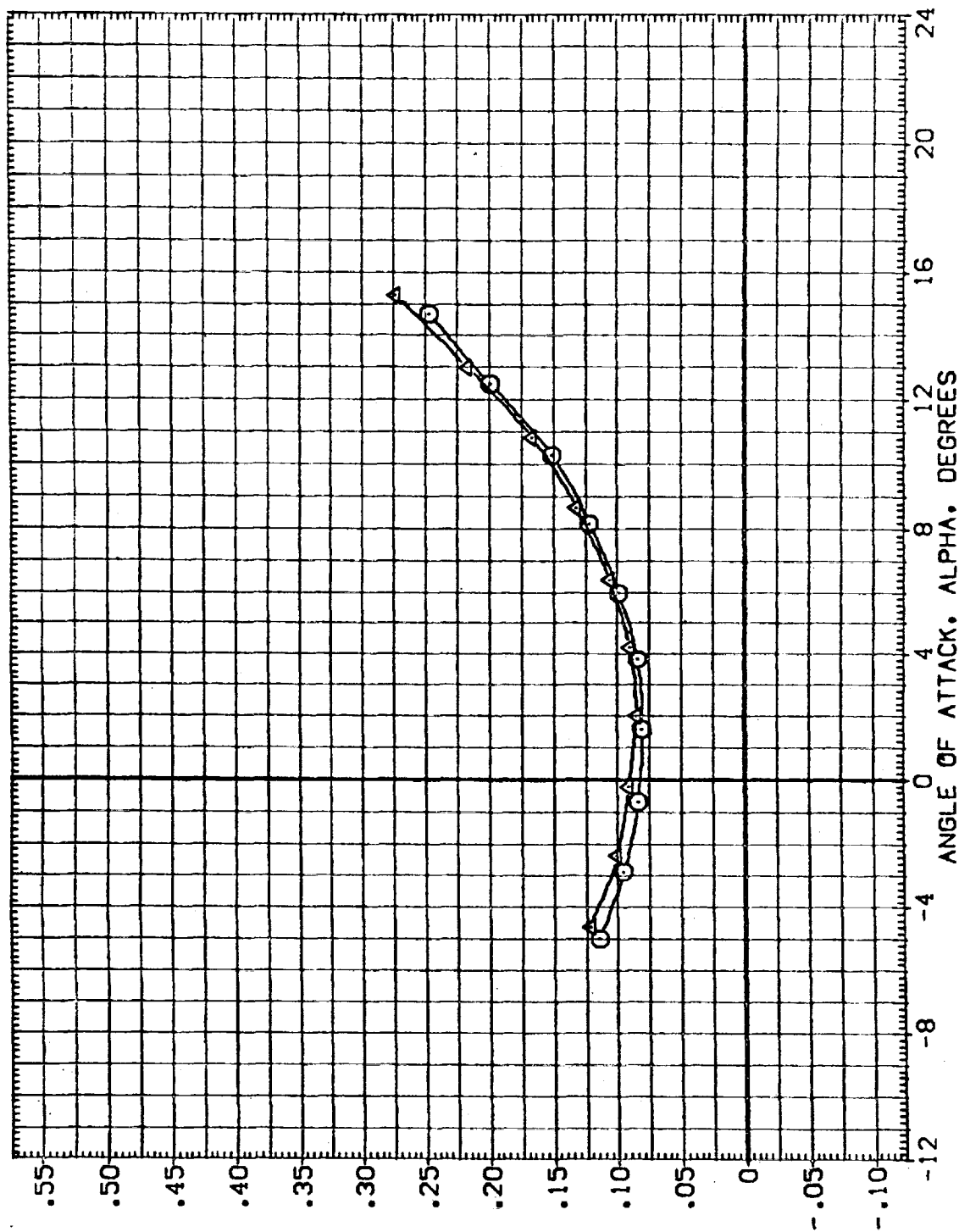
BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150



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FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{ CER001 }	ARC 66-709 QAS9 0A11A-(N24 R5 V81)*STRUT+QUM STNG	.000	.000	-11.700	SREF .5053 50. FT.
{ CER005 }	ARC 66-709 QAS9 0A11A-(N24 R5 V81)*STRUT+QUM STNG	.000	.000	16.300	LREF .5935 FT.
{ CER006 }	ARC 66-709 QAS9 0A11A-(N24 R5 V81)*STRUT+QUM STNG	.000	.000	.000	BREF 1.1710 IN.
{ CER012 }	ARC 66-709 QAS9 0A11A-(R5 V81)*STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
{ CER014 }	ARC 66-709 QAS9 0A11A-(R5 V81)*STRUT	.000	.000	16.300	ZMRP -.3750 IN.
{ CER015 }	ARC 66-709 QAS9 0A11A-(R5 V81)*STRUT	.000	.000	.000	SCALE .0150

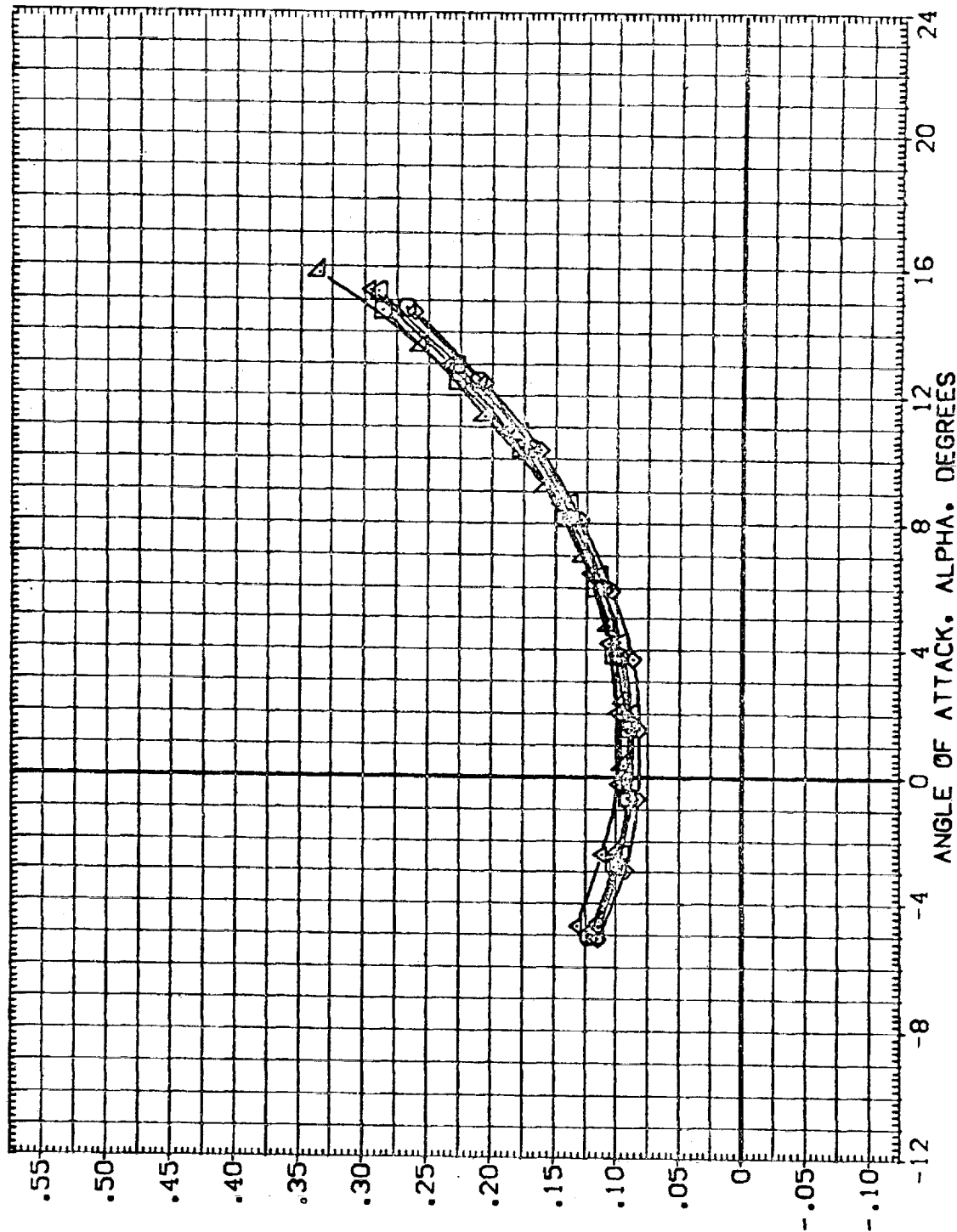


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

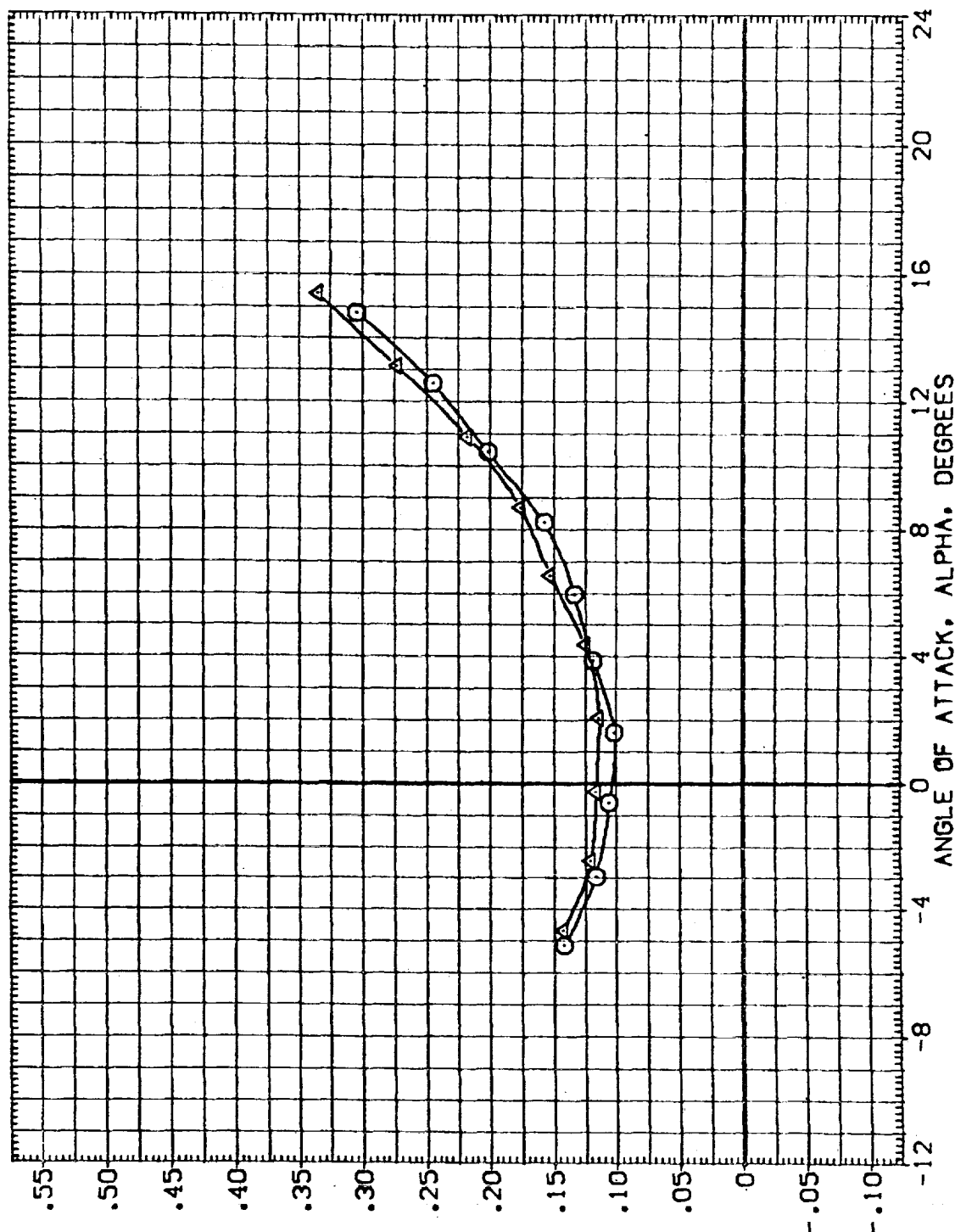


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

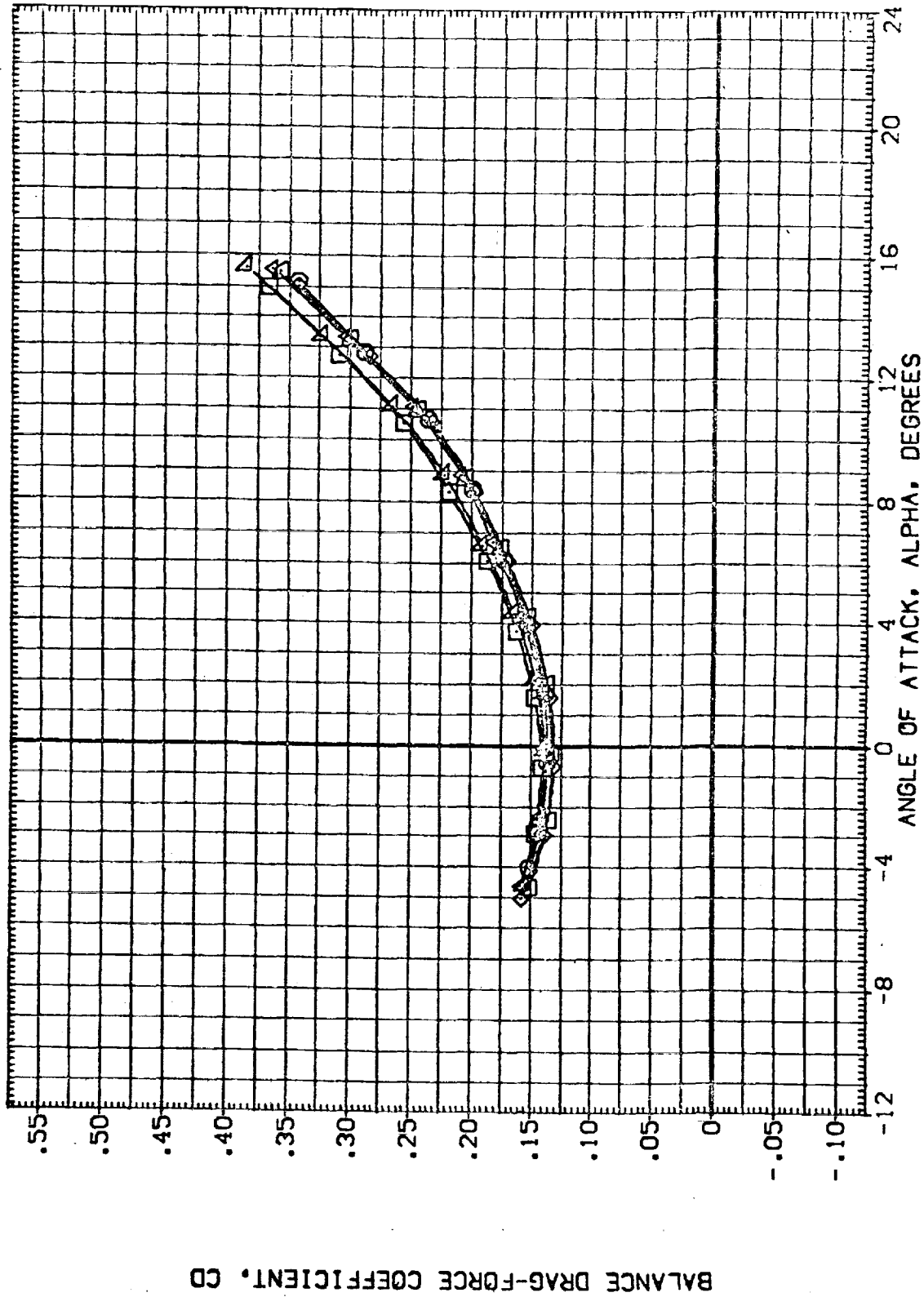


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 D459 DAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 D459 DAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 D459 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 D459 DAI1A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 D459 DAI1A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

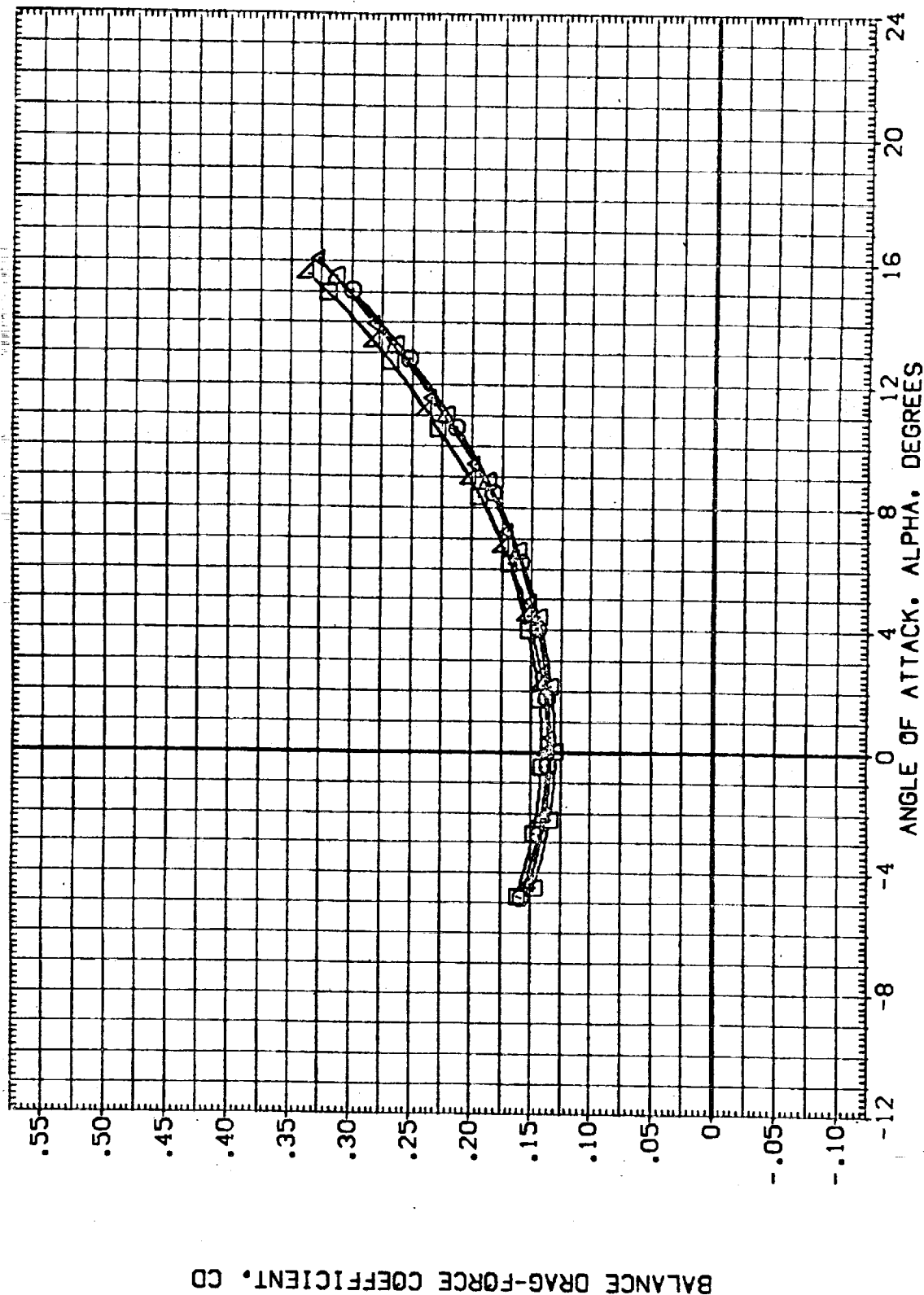


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

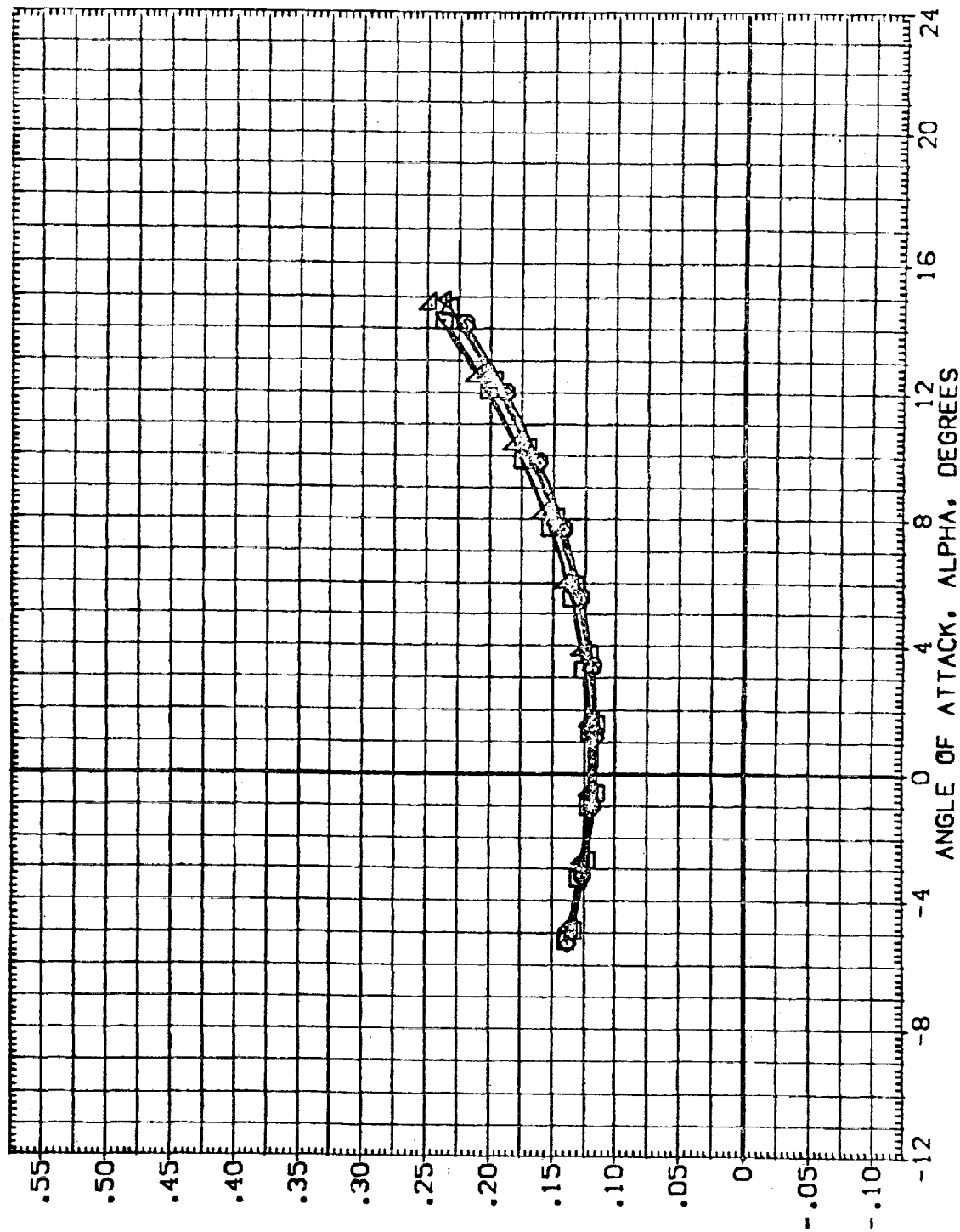


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

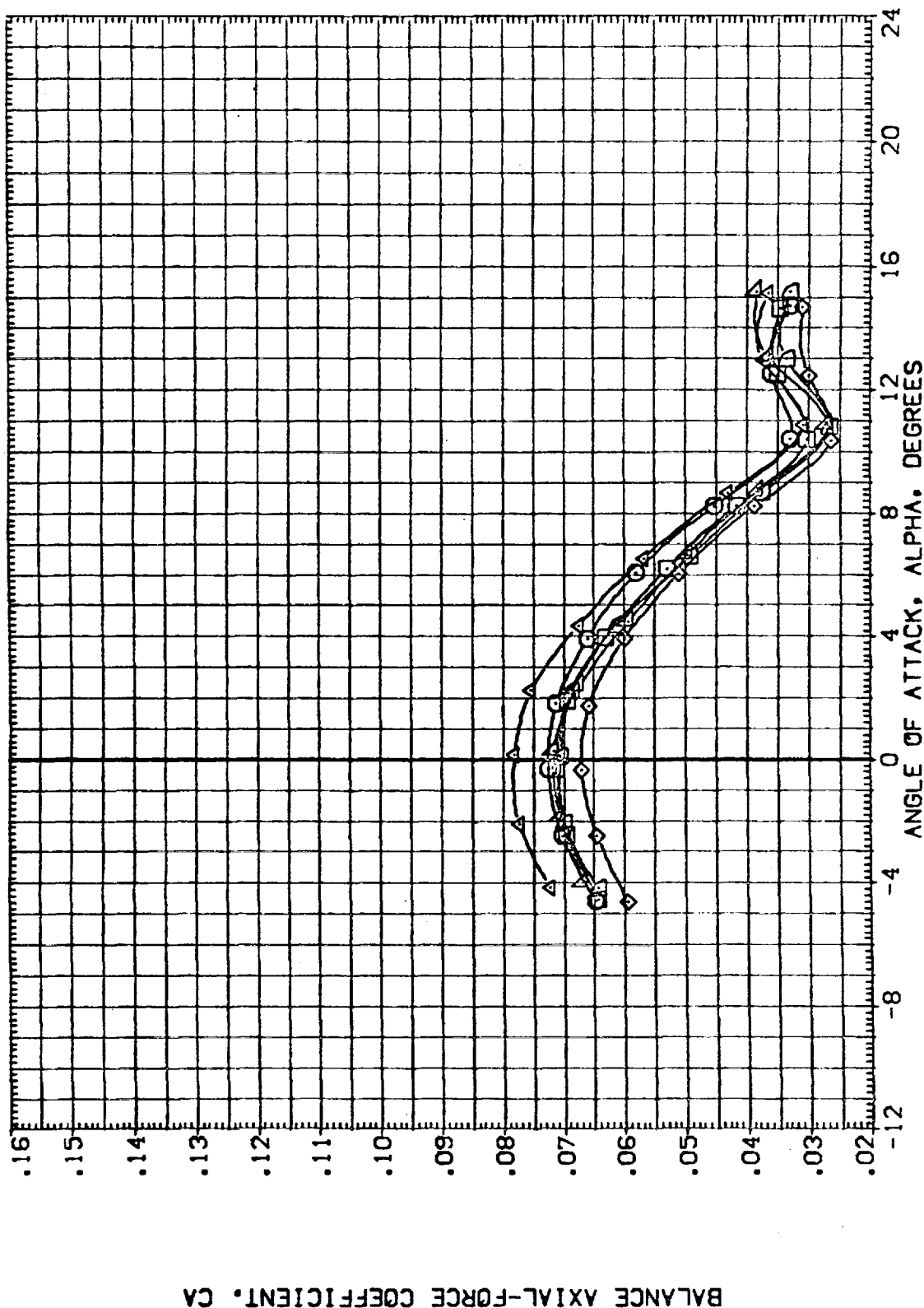


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DLM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DLM STING	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

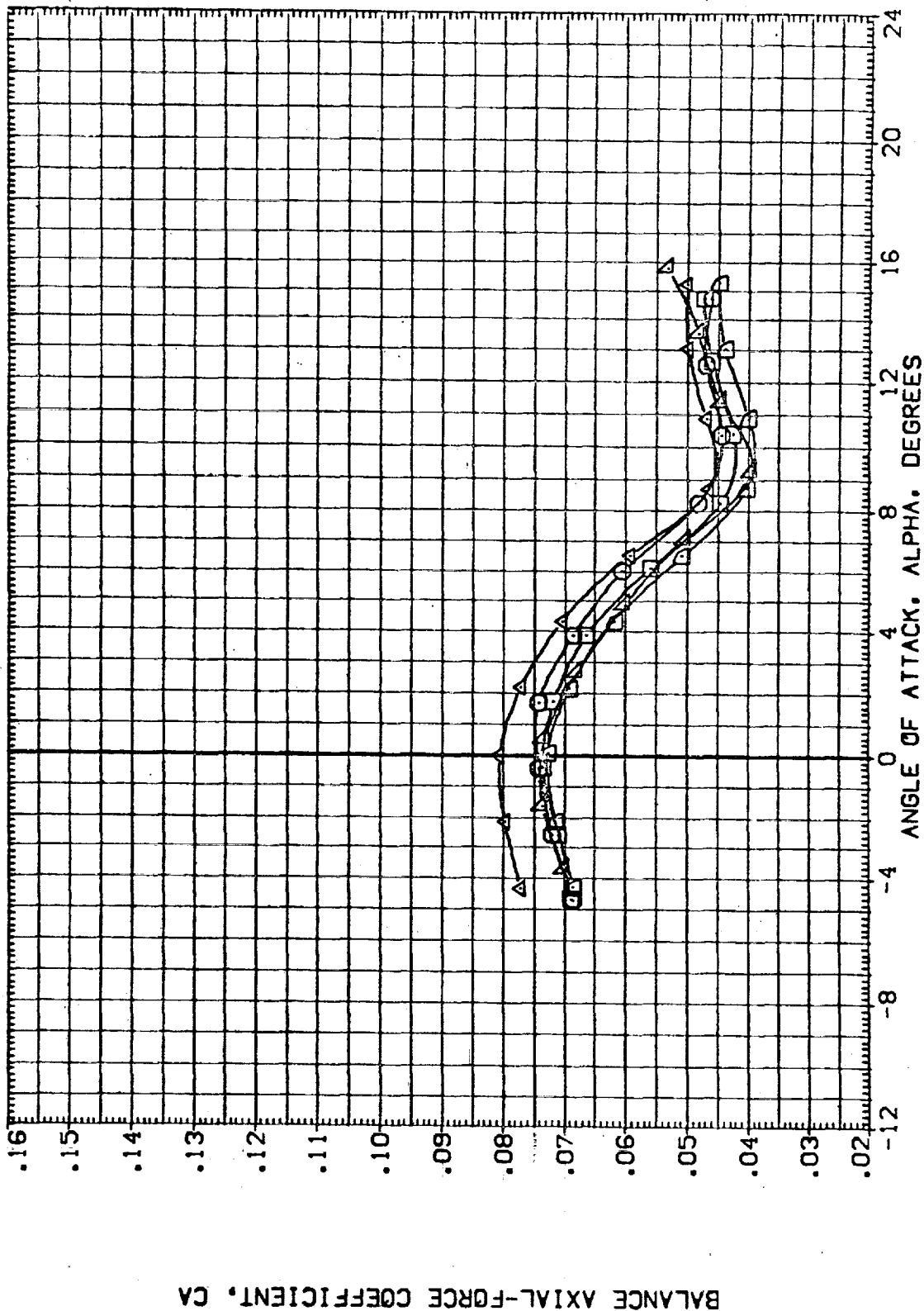
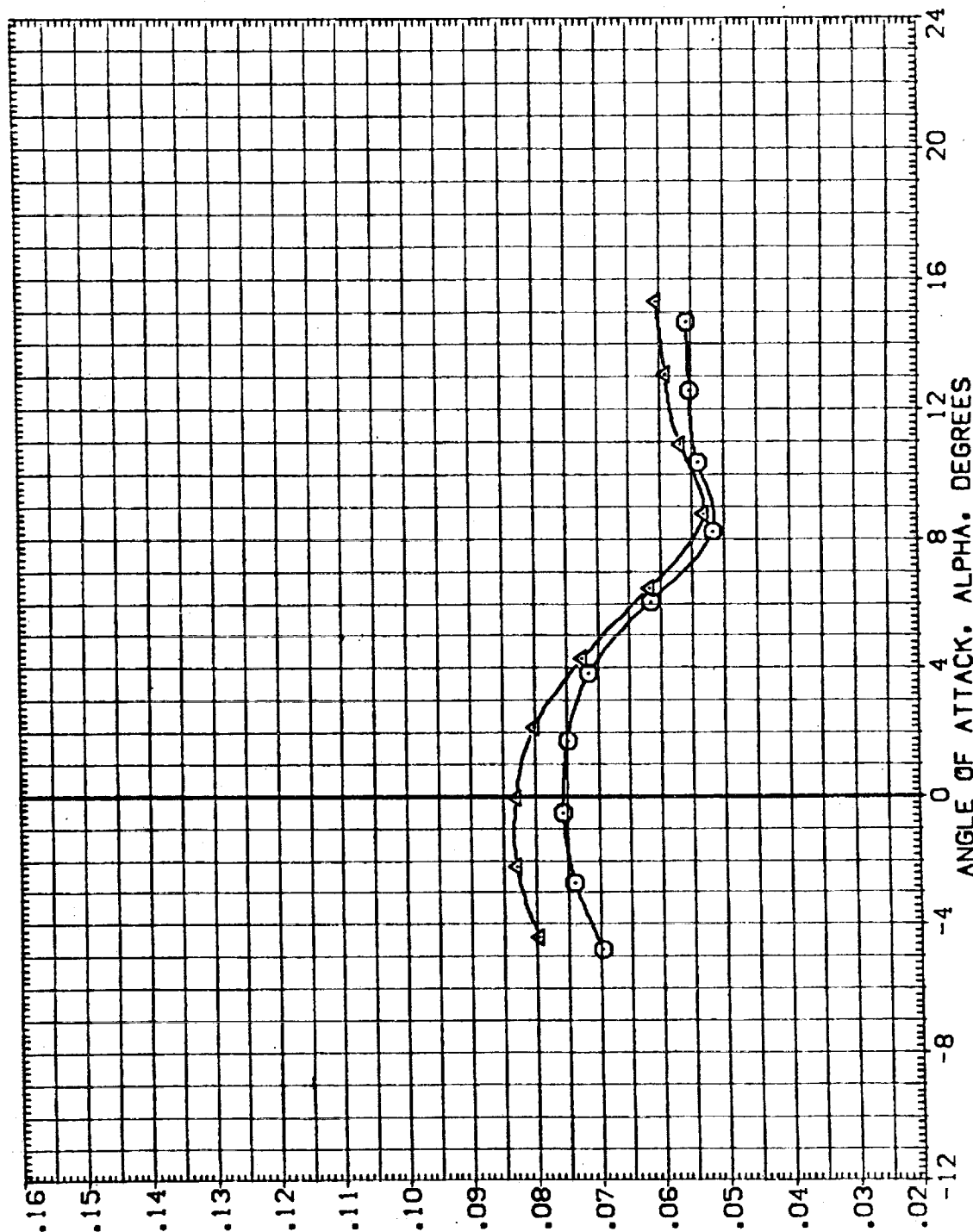


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE -.3750 IN.



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FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+QJM STING  
 ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+QJM STING  
 DATA NOT AVAILABLE  
 ARC 66-709 QAS9 0A11A-(RS V8)+STRUT  
 ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION

SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

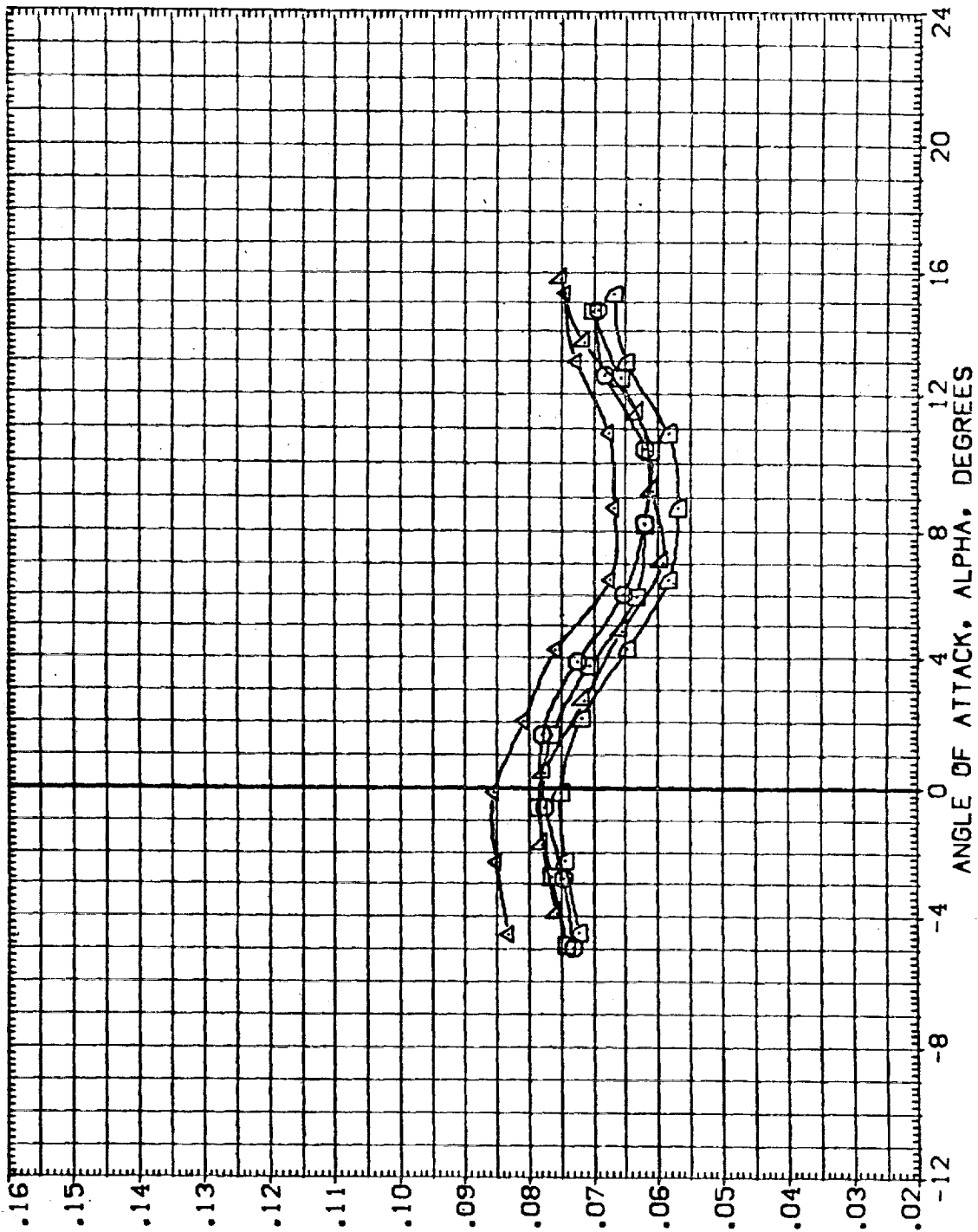


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

REFERENCE INFORMATION

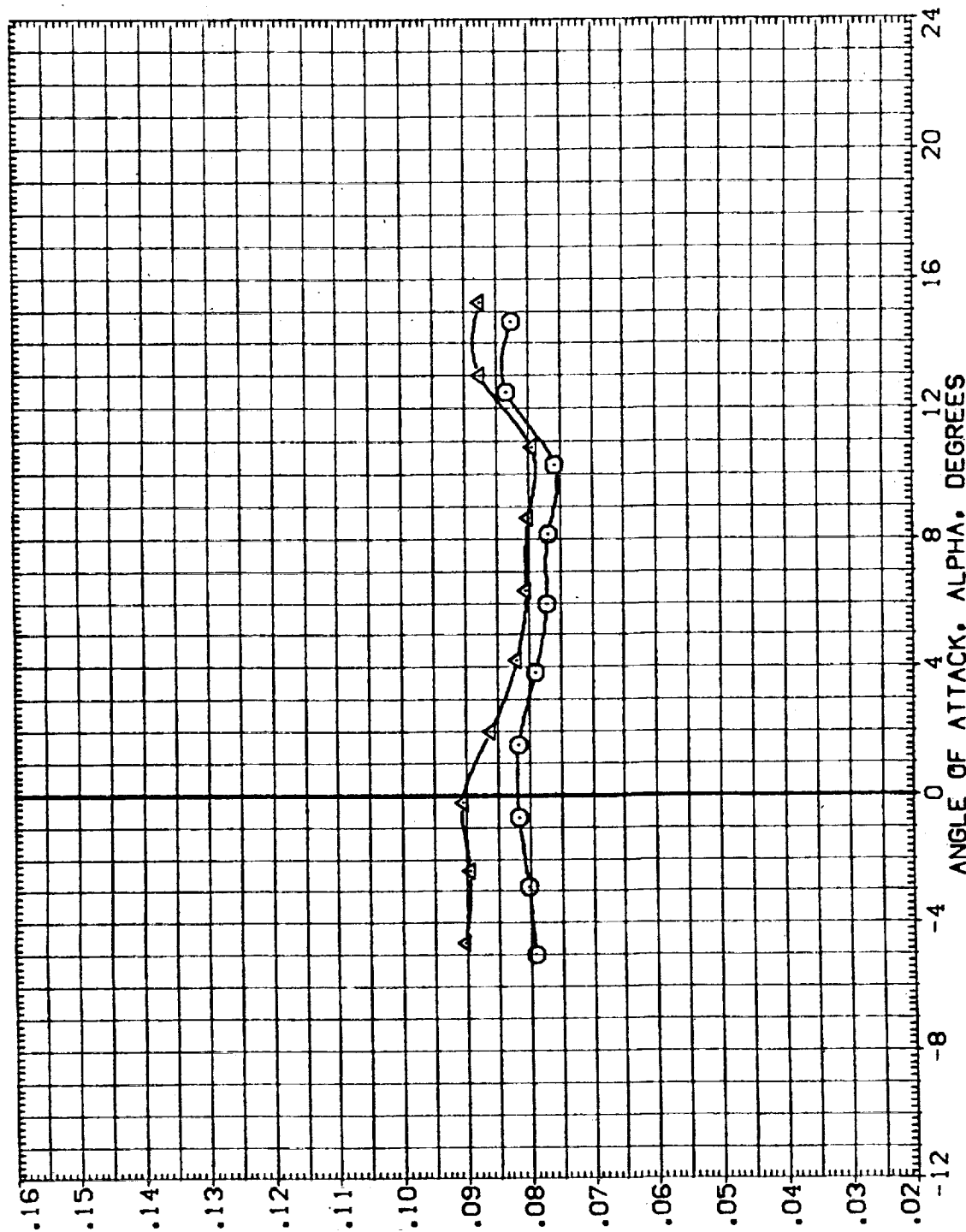
SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	BDFLAP
.000	-.11.700
.000	16.300
.000	.000
.000	-.11.700
.000	16.300
.000	.000

DATA SET SYMBOL

CONFIGURATION DESCRIPTION
ARC 66-709 DASS DA111A-(N24 R5 V81)+STRUT+DUM STNG
DATA NOT AVAILABLE
DATA NOT AVAILABLE
ARC 66-709 DASS DA111A-(R5 V81)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE



BALANCE AXIAL-FORCE COEFFICIENT, CA

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER008}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

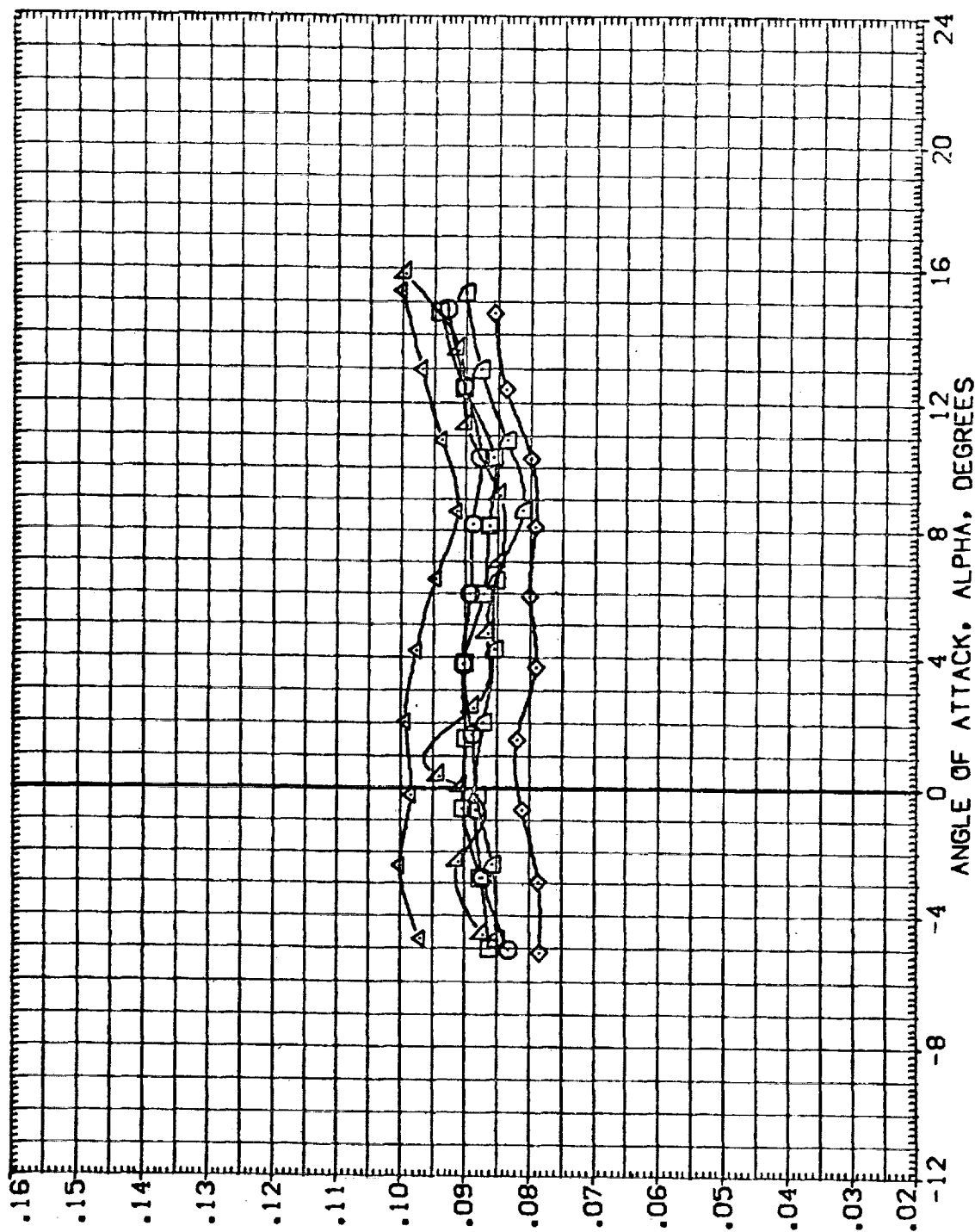


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	.000
	16.300
	.000
	.000
	-11.700
	.000
	16.300
	.000

DATA SET SYMBOL

(CER001)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG
(CER005)	DATA NOT AVAILABLE
(CER006)	DATA NOT AVAILABLE
(CER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT
(CER014)	DATA NOT AVAILABLE
(CER015)	DATA NOT AVAILABLE

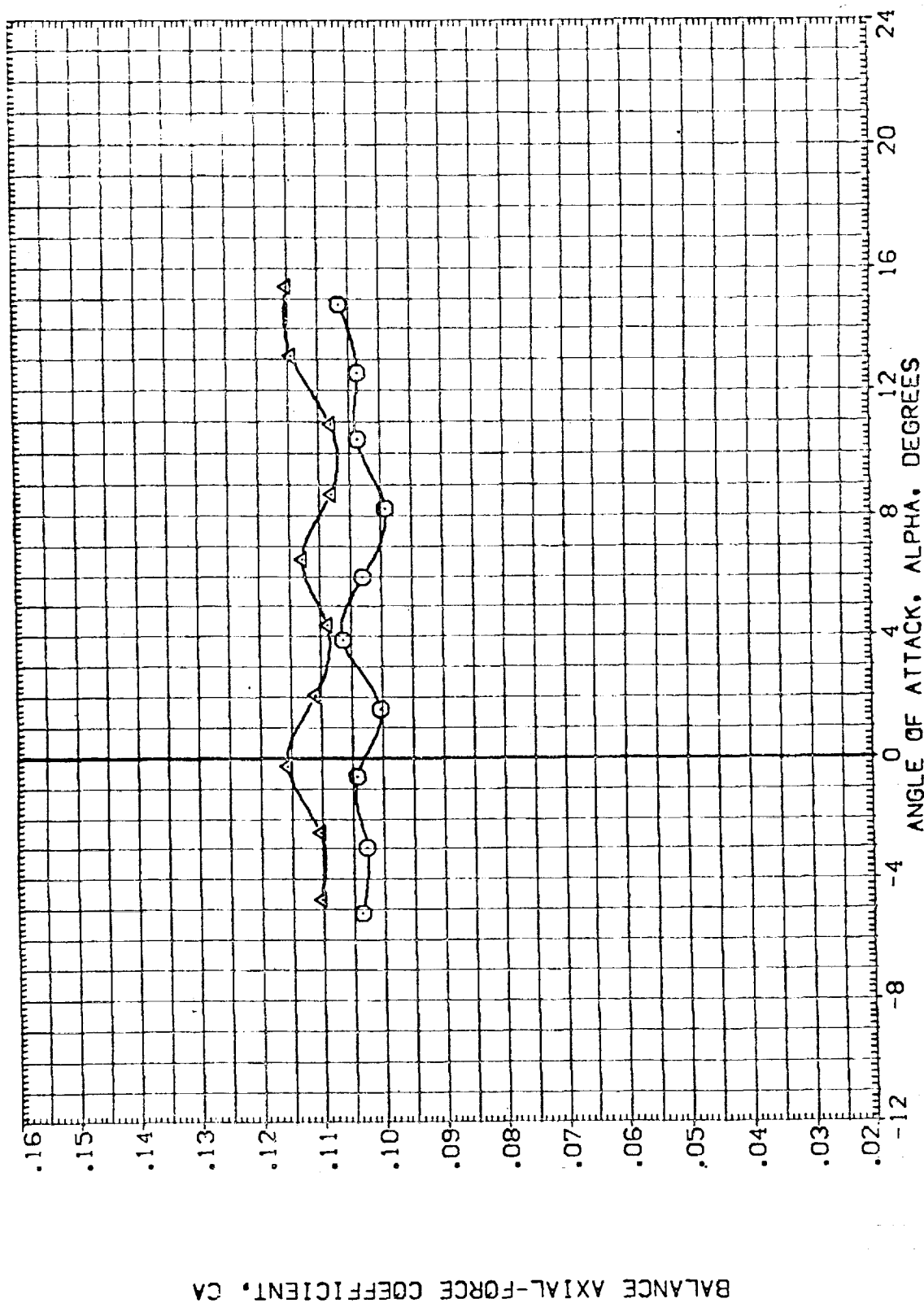


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

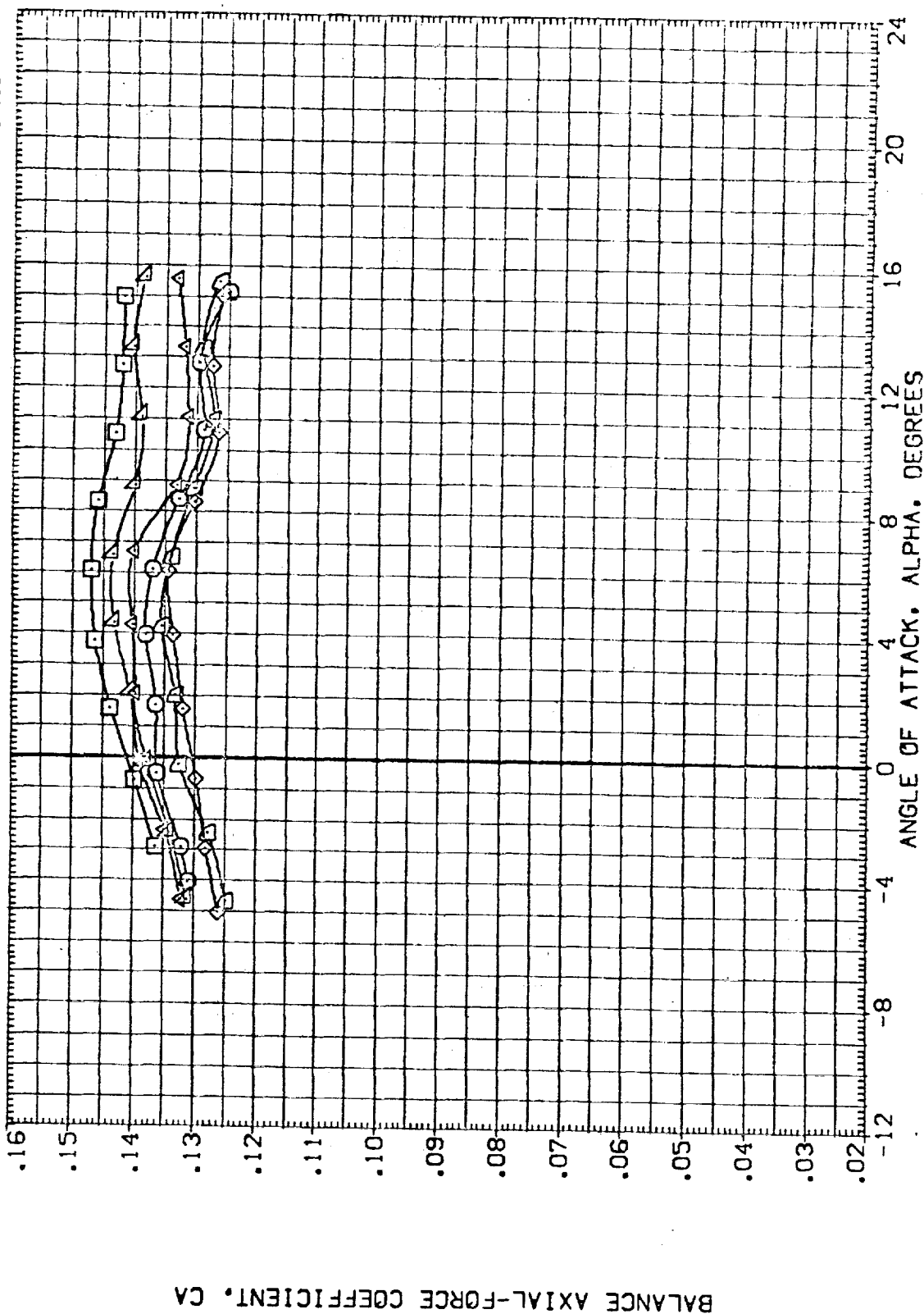


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 Q111A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 QAS9 Q111A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5933 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 Q111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	ARC 66-709 QAS9 Q111A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 Q111A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

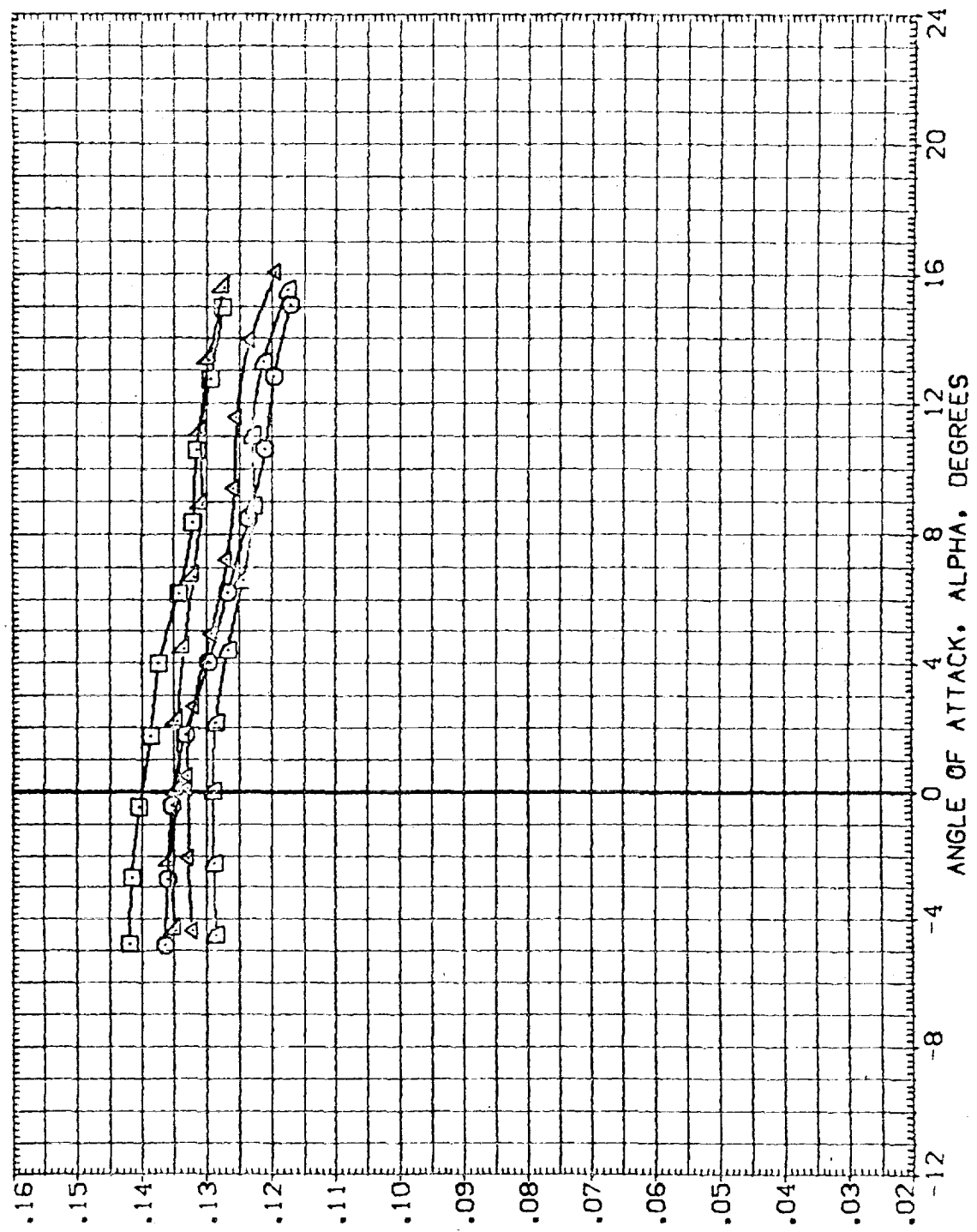


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5975	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000	BOFLAP
	.000	-11.700
	.000	16.300
	.000	.000
	.000	-11.700
	.000	16.300
	.000	.000

CA11A-(N24 RS V8)+STRUT+DLM STNG

CA11A-(N24 RS V8)+STRUT+DLM STNG

CA11A-(N24 RS V8)+STRUT

CA11A-(RS V8)+STRUT

CA11A-(RS V8)+STRUT

ARC 66-709 CA59

ARC 66-709 CA59

ARC 66-709 CA59

ARC 66-709 CA59

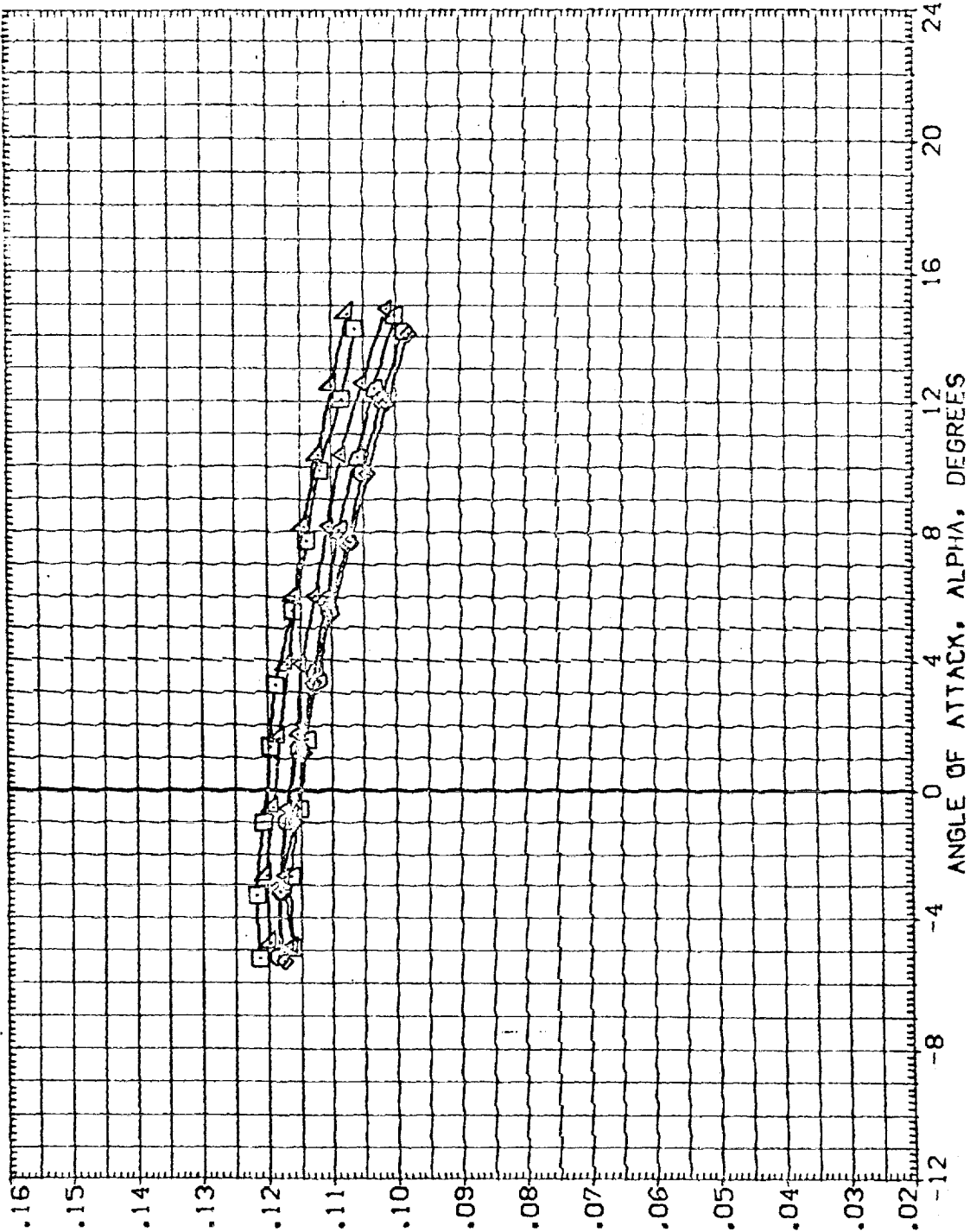


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER014)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
(CER015)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	.000	SCALE .0150

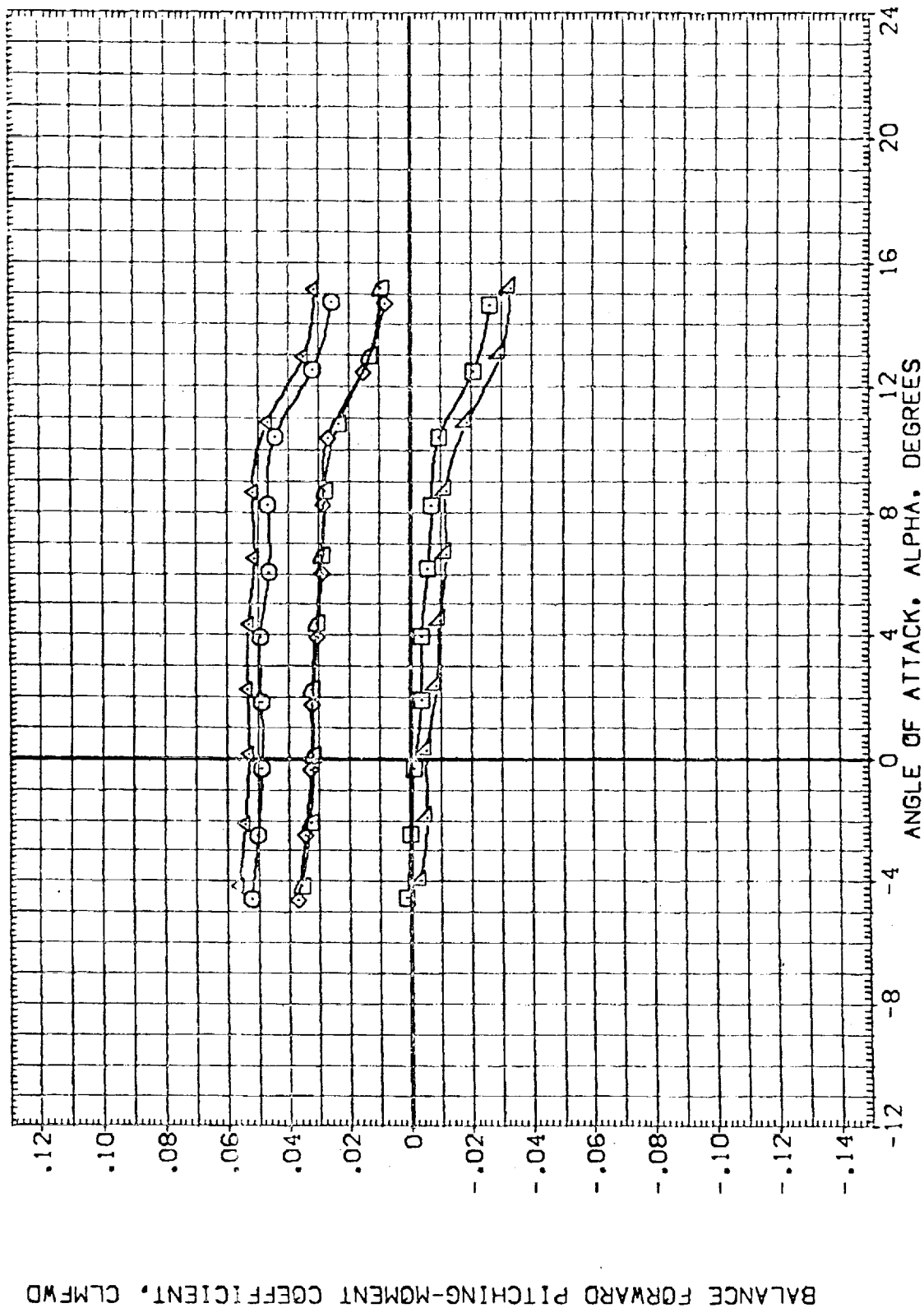


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

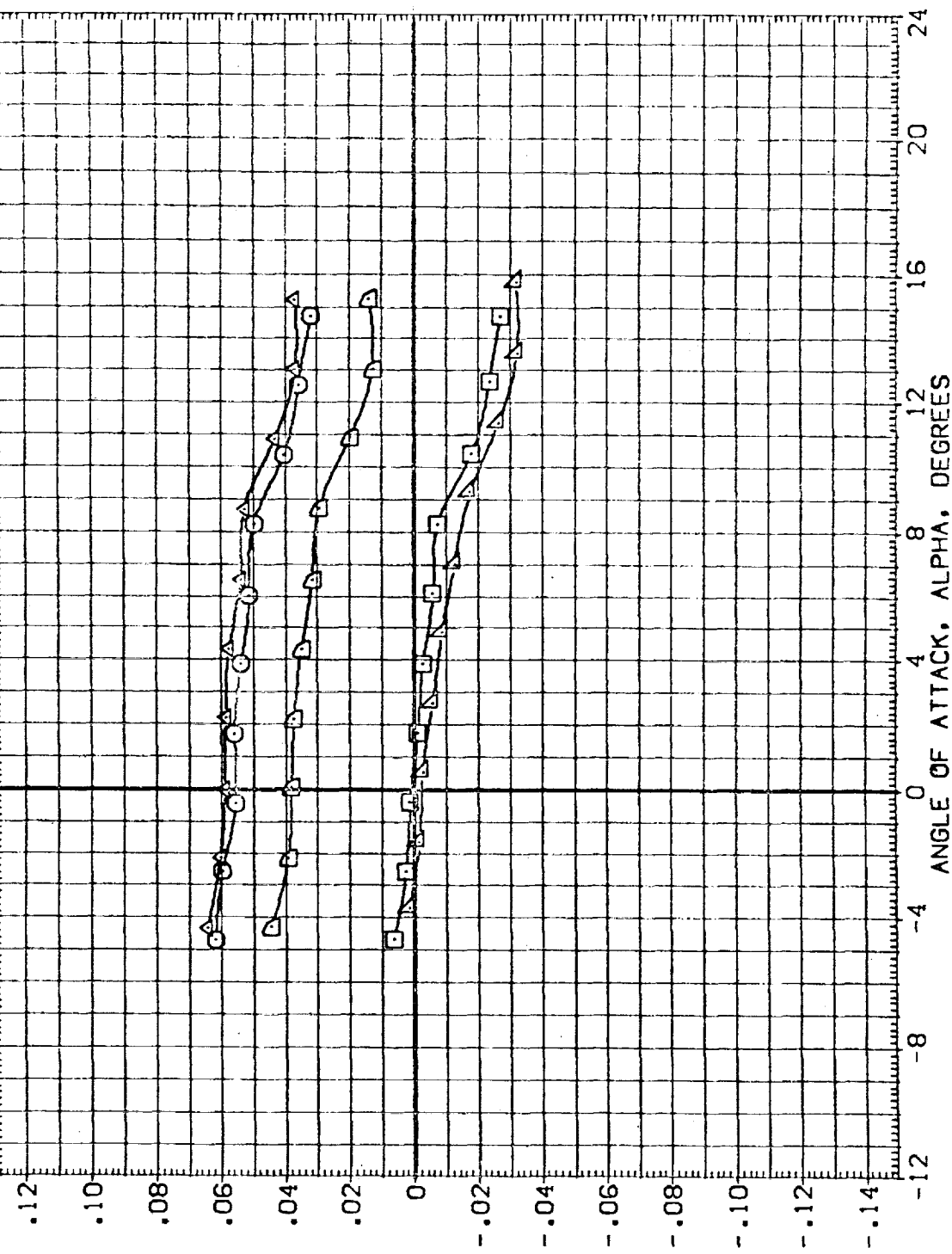


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 Q111A-(N24 R5 V8)-STRUT+QUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER008)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 Q111A-(R5 V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

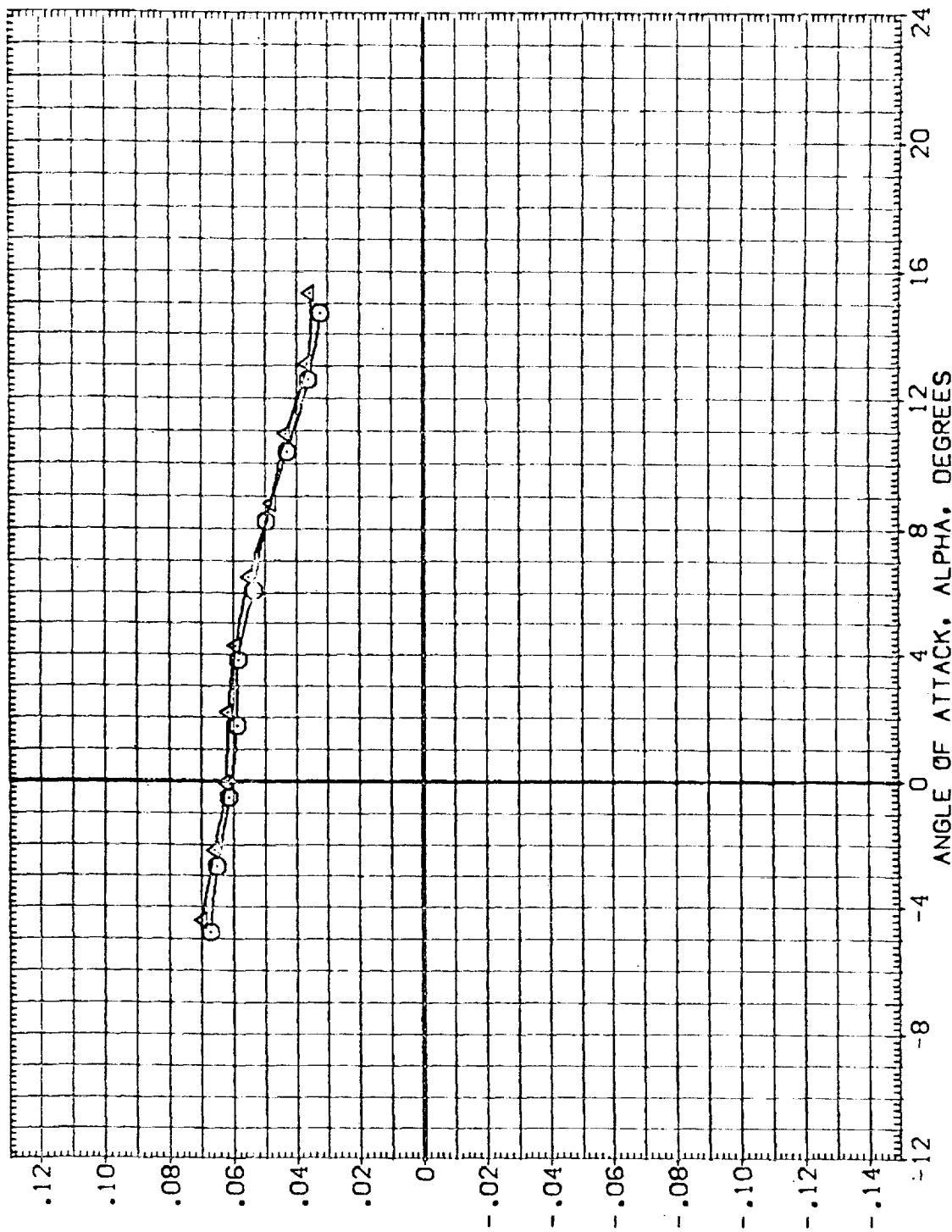


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

BETA	.000	.000	-11.700
ELEVON	.000	.000	16.300
BOFLAP	.000	.000	16.300
	.000	.000	-11.700
	.000	.000	16.300
	.000	.000	16.300

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24	RS	V8)	+STRUT+DUM	STNG
ARC 66-709	0A59	0A11A-(N24	RS	V8)	+STRUT+DUM	STNG
DATA NOT AVAILABLE						
ARC 66-709	0A59	0A11A-(RS	V8)	+STRUT		
ARC 66-709	0A59	0A11A-(RS	V8)	+STRUT		
ARC 66-709	0A59	0A11A-(RS	V8)	+STRUT		

DATA SET SYMBOL

[CER001]	[CER005]	[CER006]	[CER012]	[CER014]	[CER015]
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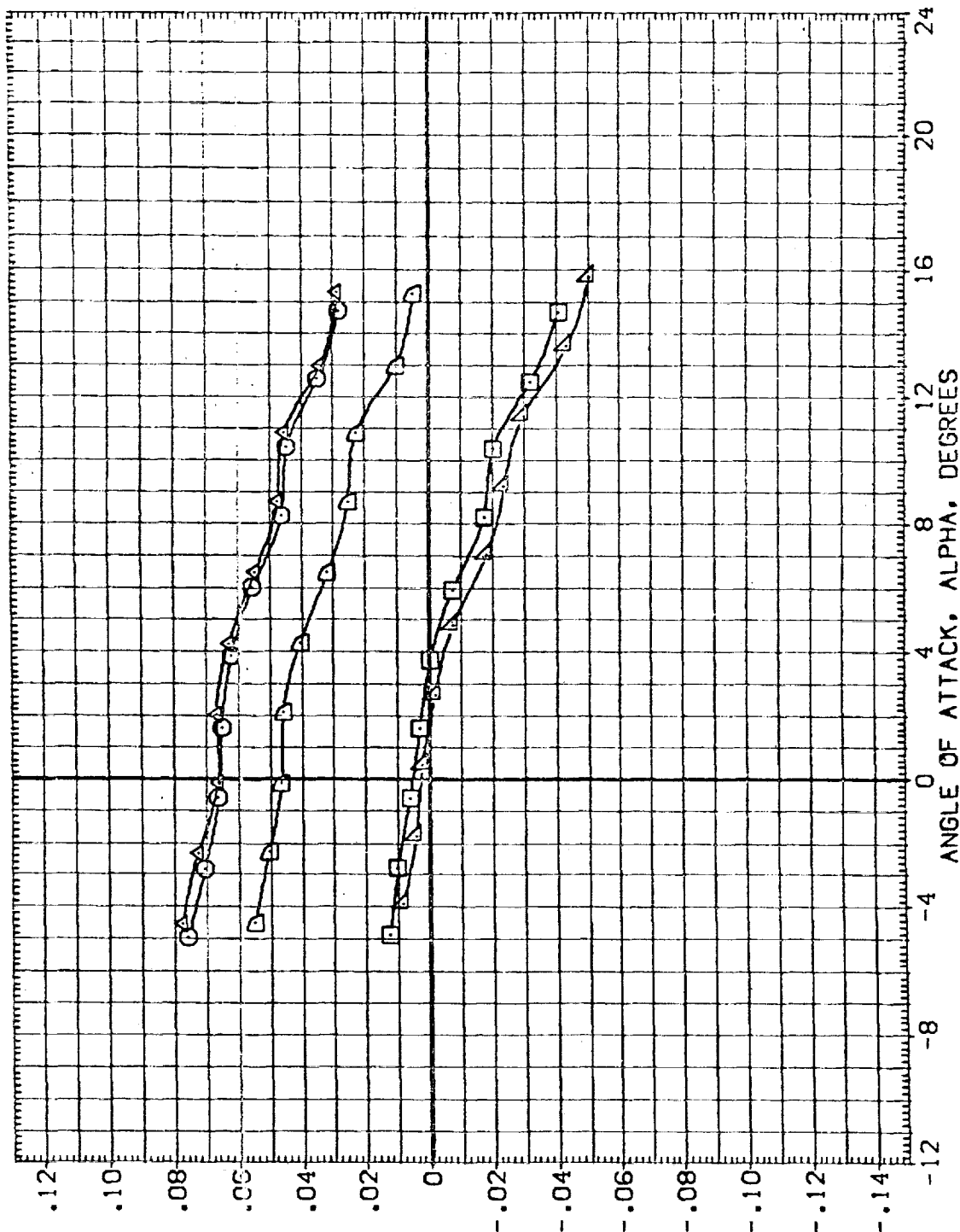


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

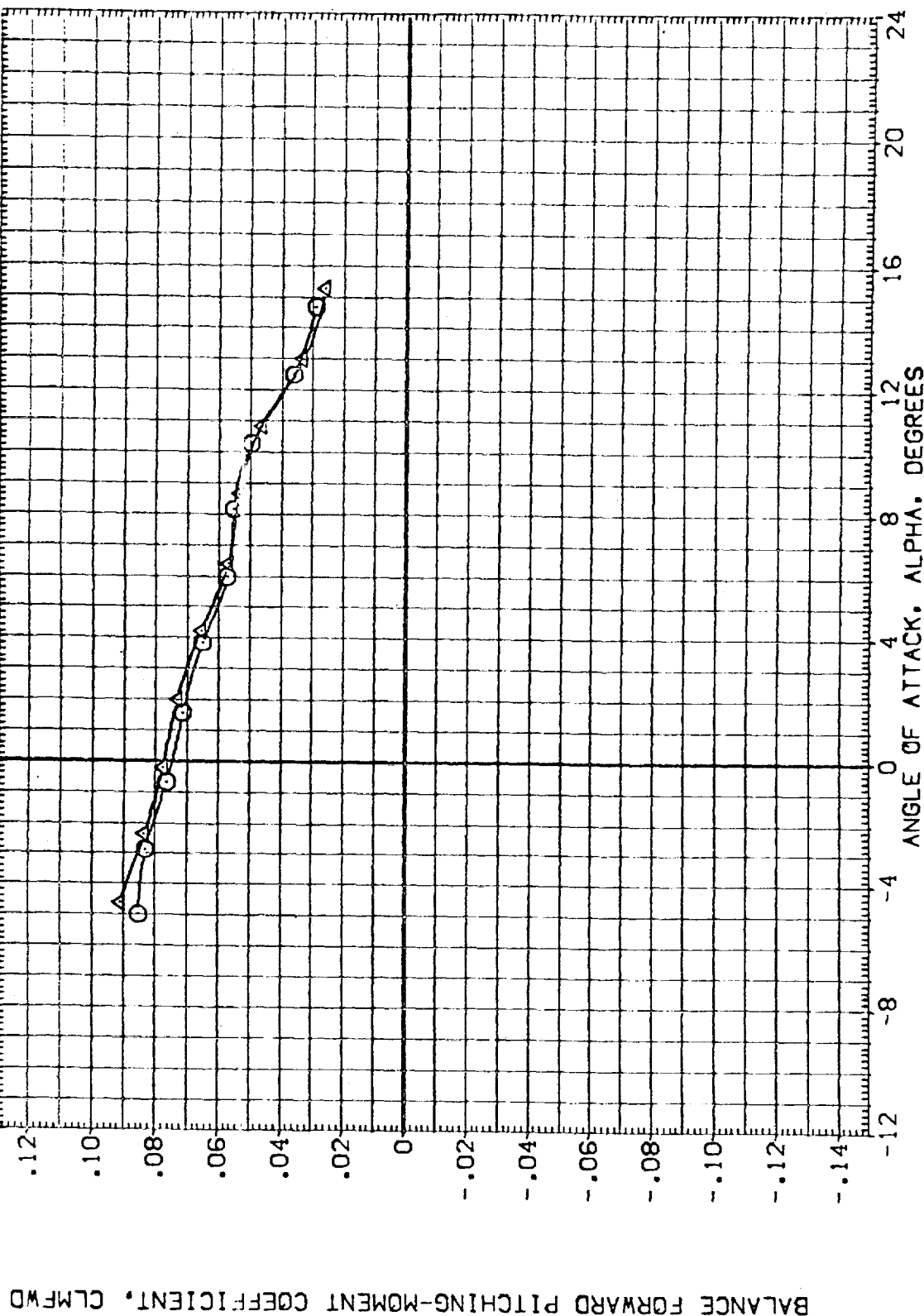


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5975	FT.
BREF	1.1710	FT.
YMRP	12.6755	IN.
ZMRP	.0000	IN.
SCALE	-.3750	IN.
	.0150	

BETA

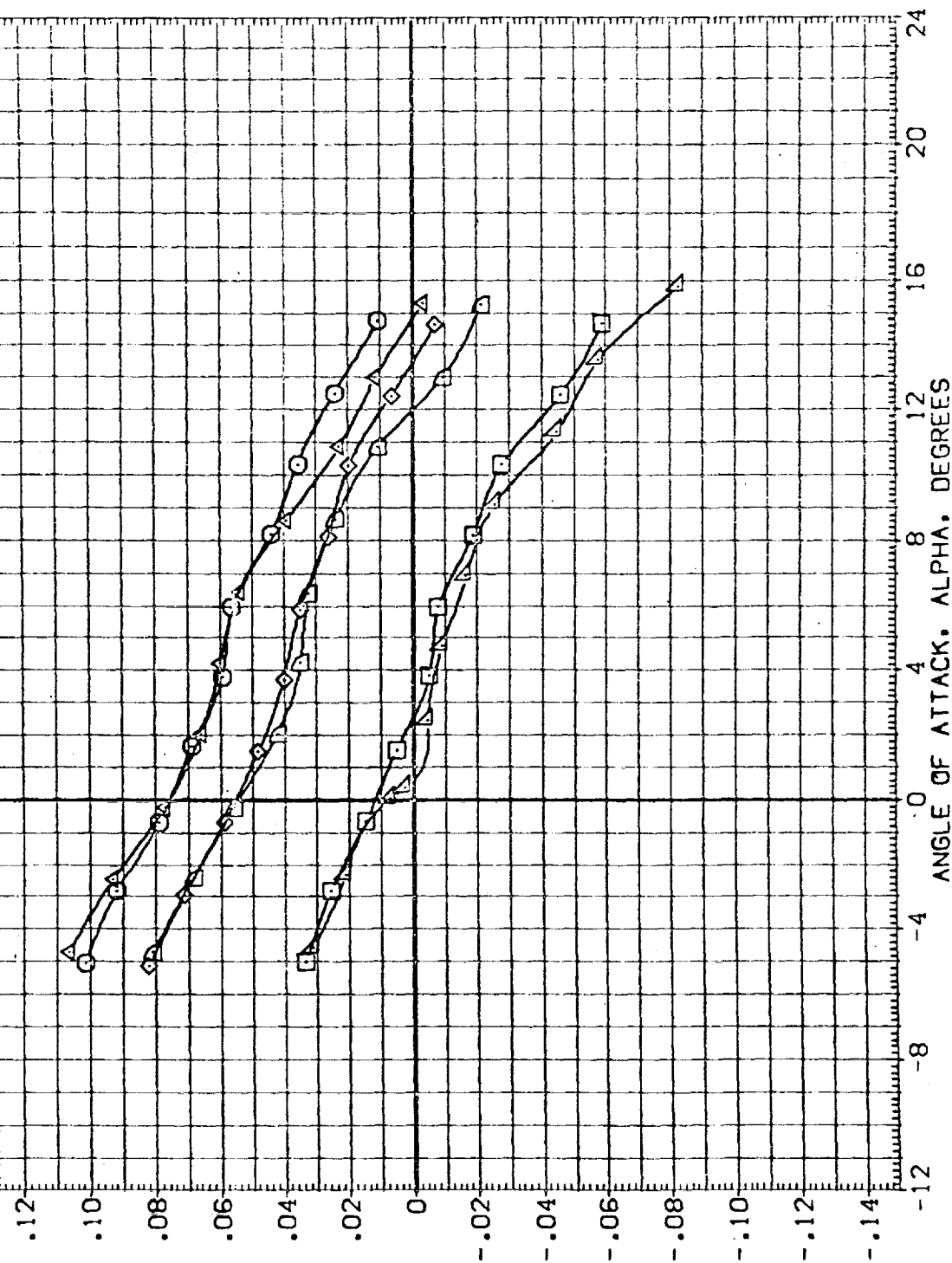
ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24 RS V8)+STRUT+DUM STING
ARC 66-709	0A59	0A11A-(N24 RS V8)+STRUT+DUM STING
ARC 66-709	0A59	0A11A-(N24 RS V8)+STRUT+DUM STING
ARC 66-709	0A59	0A11A-(RS V8)+STRUT
ARC 66-709	0A59	0A11A-(RS V8)+STRUT

DATA SET SYMBOL

(CER001)	□
(CER005)	○
(CER006)	△
(CER012)	◇
(CER014)	×
(CER015)	+



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

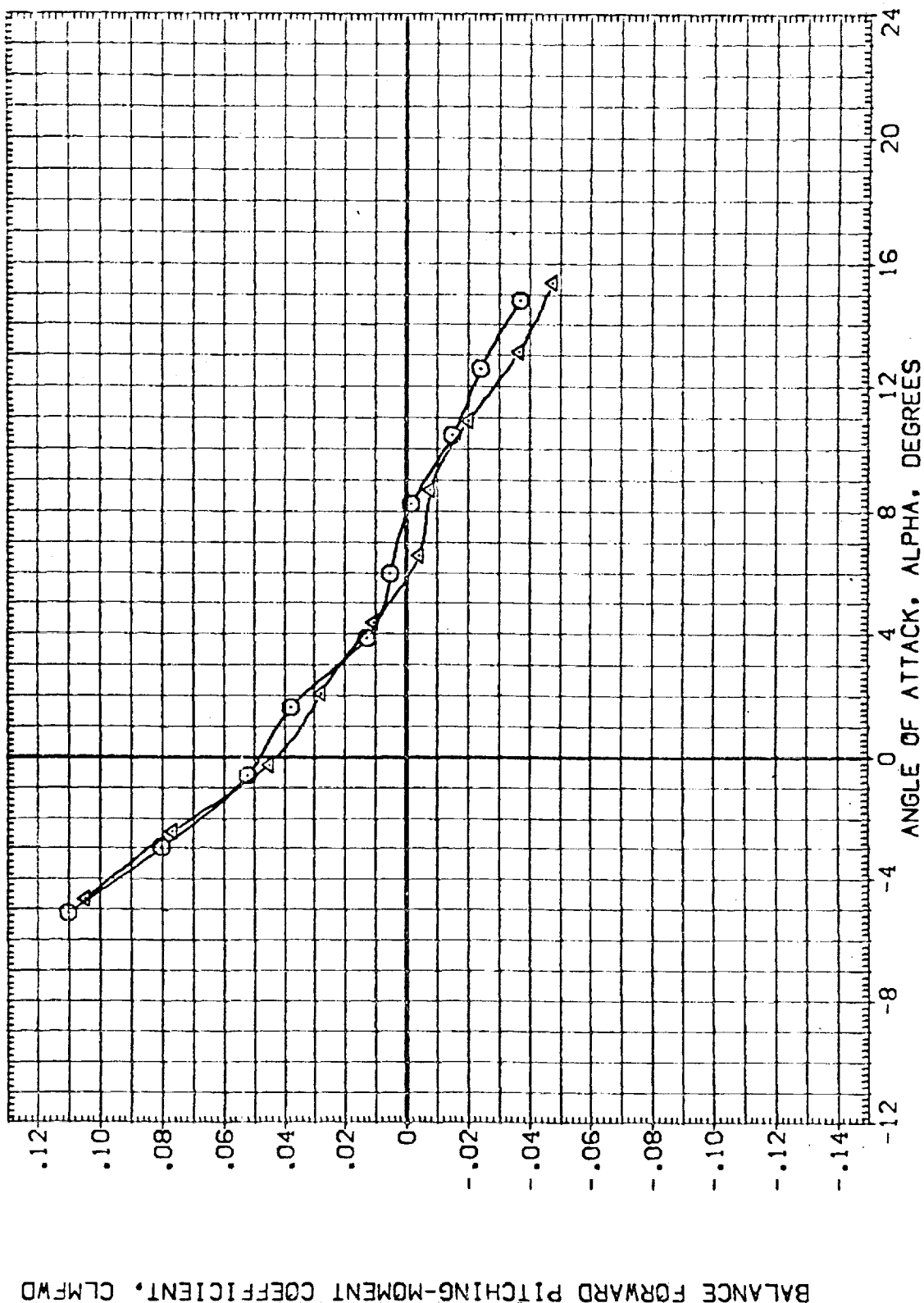


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET: SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

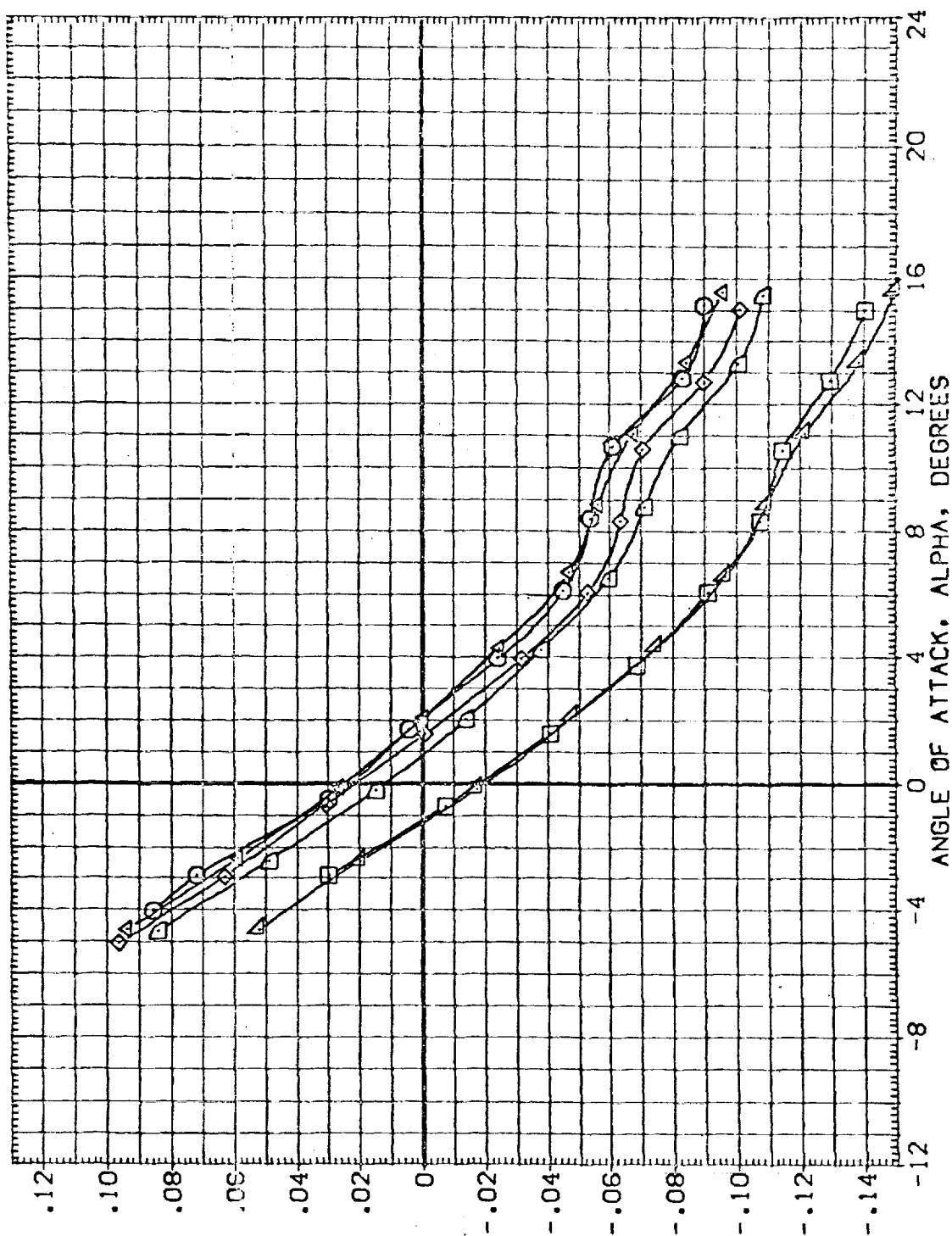
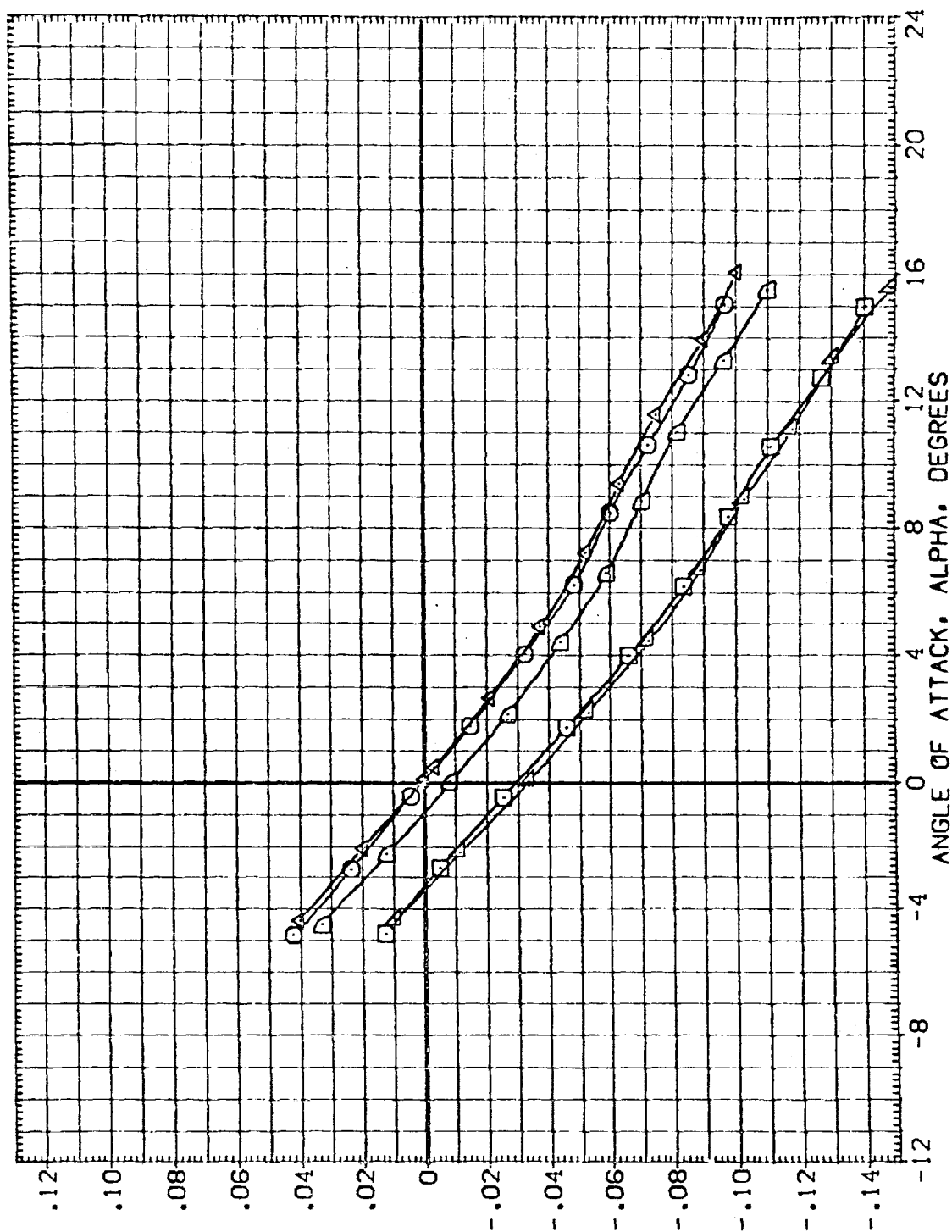


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



CLMFD BALANCE FORWARD PITCHING-MOMENT COEFFICIENT.

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

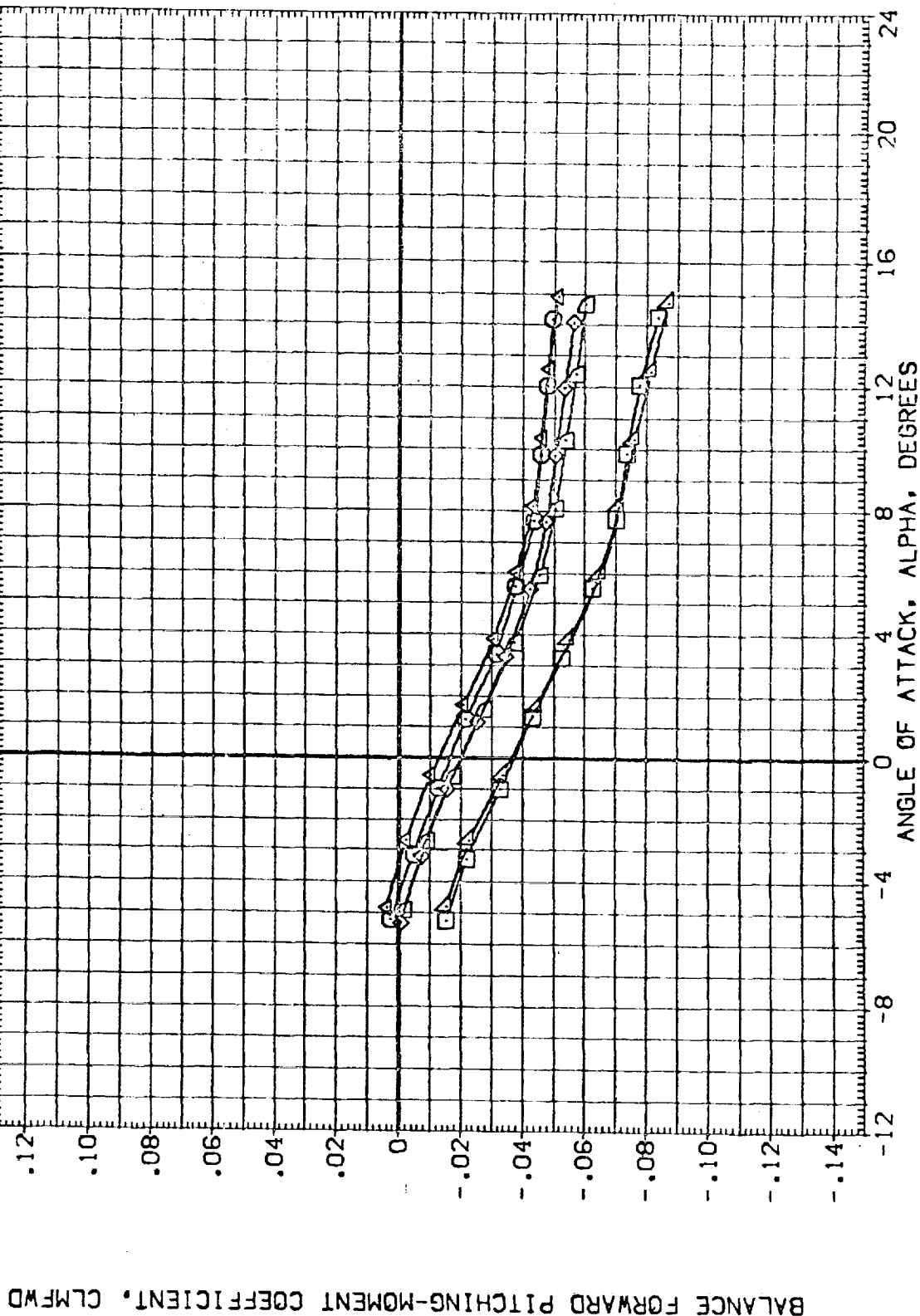
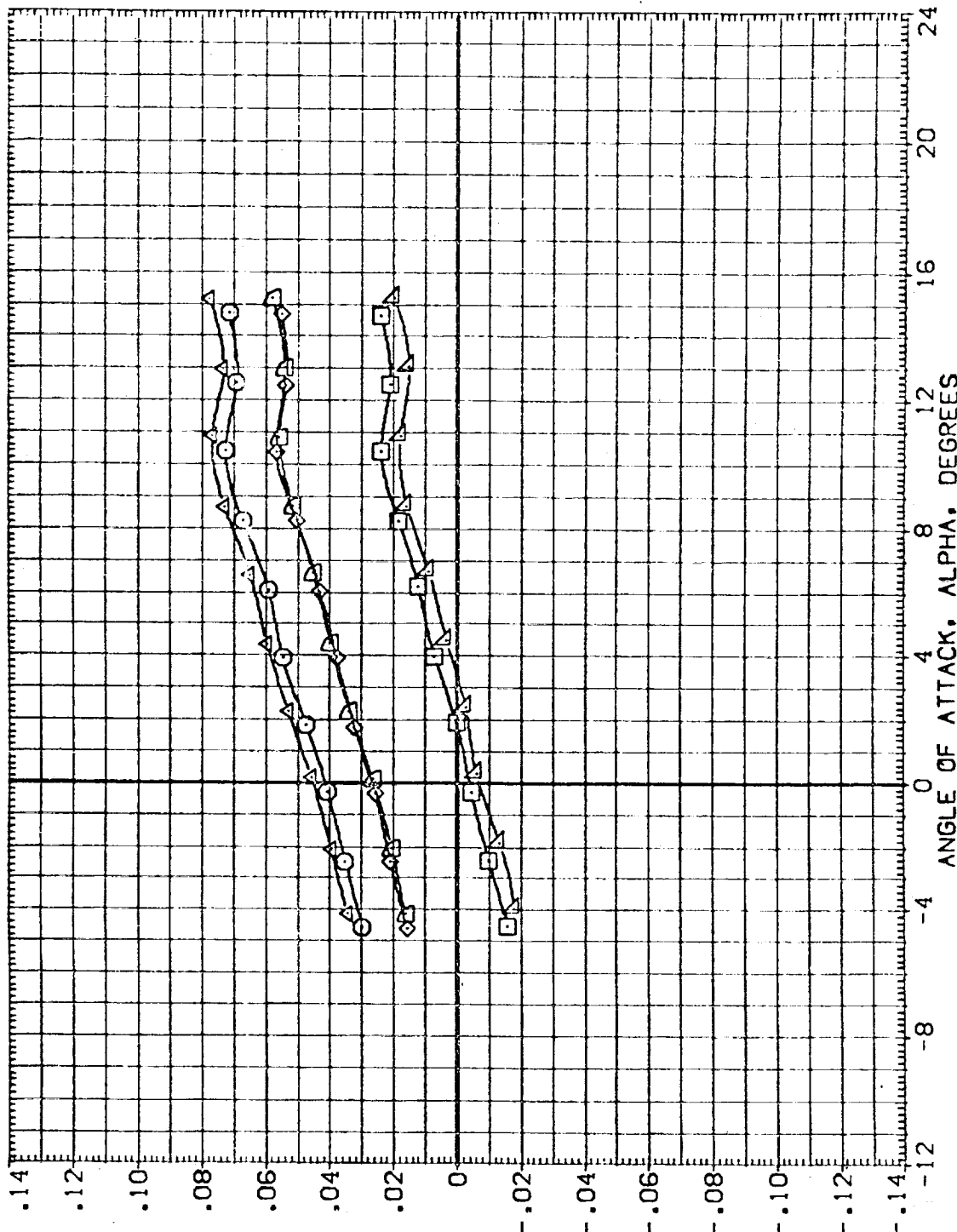


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CLMAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

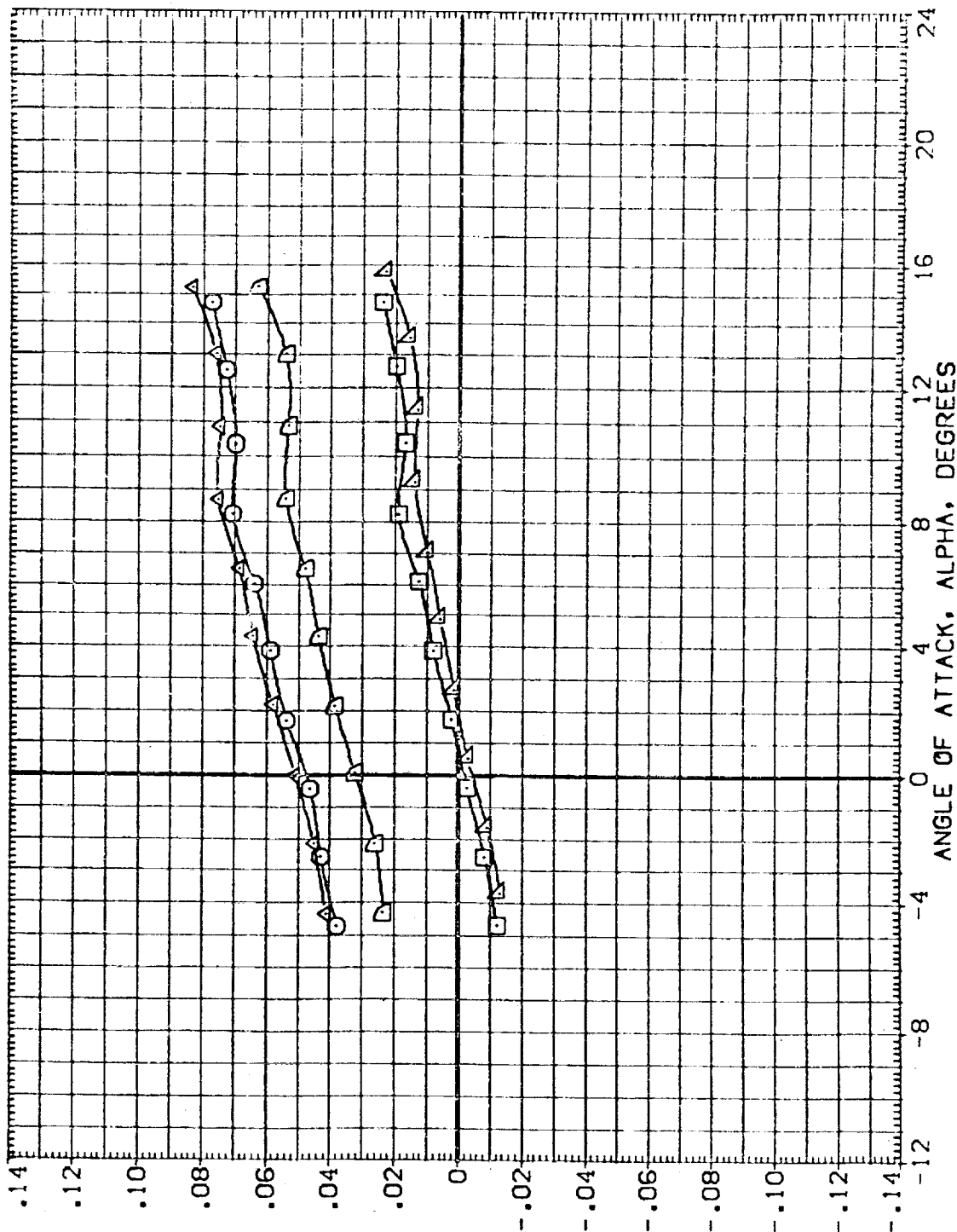


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 G111A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 G111A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

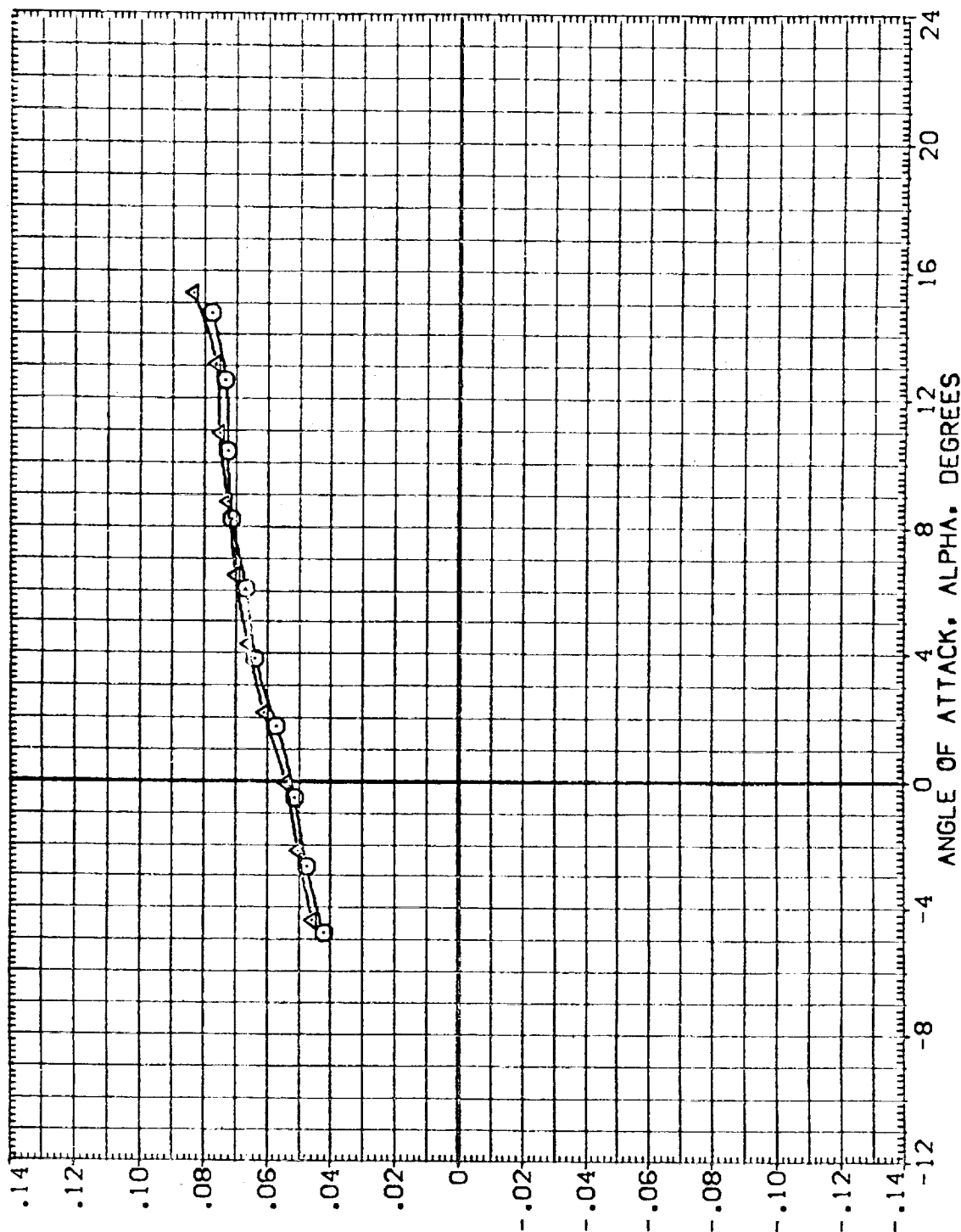


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5835 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

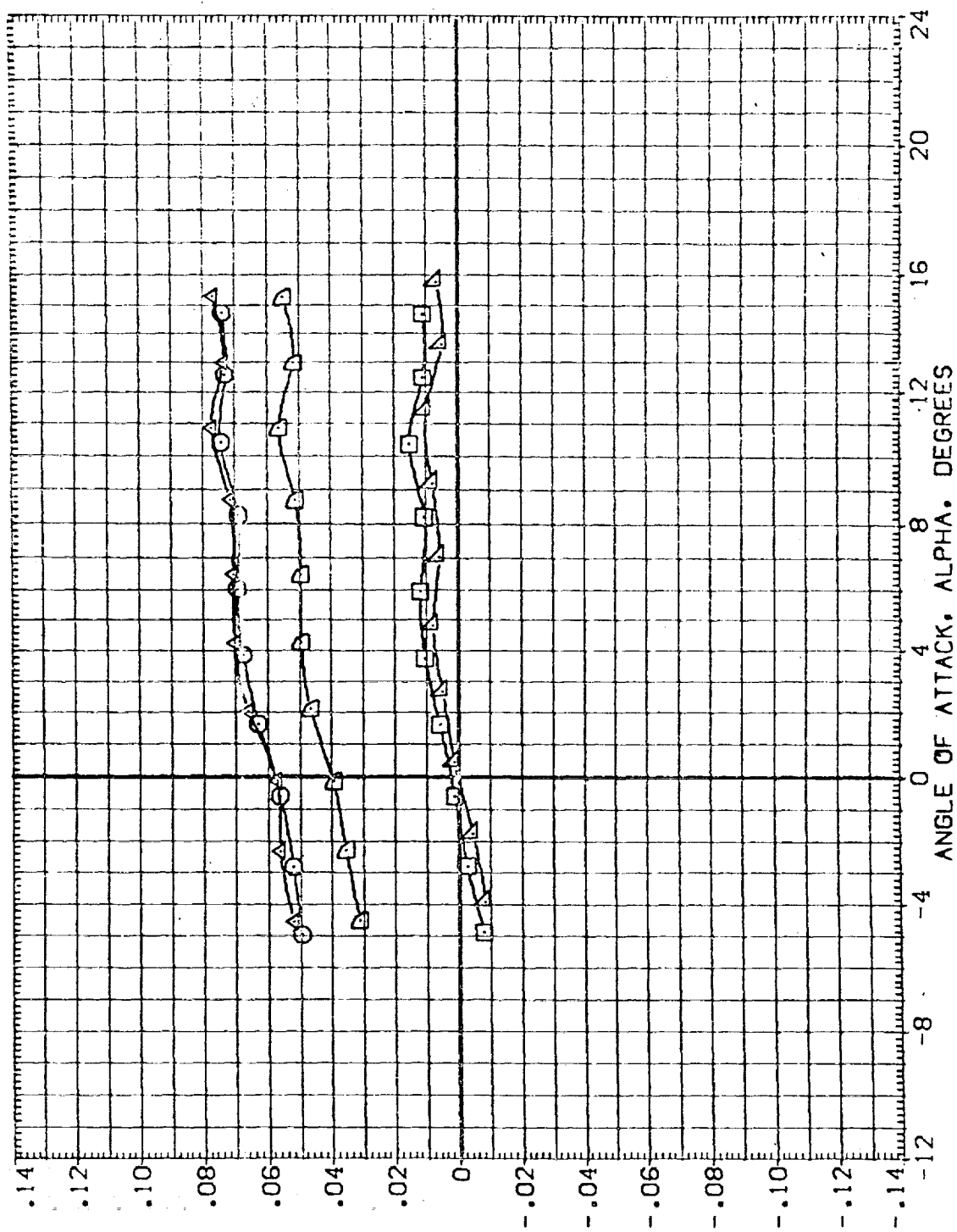
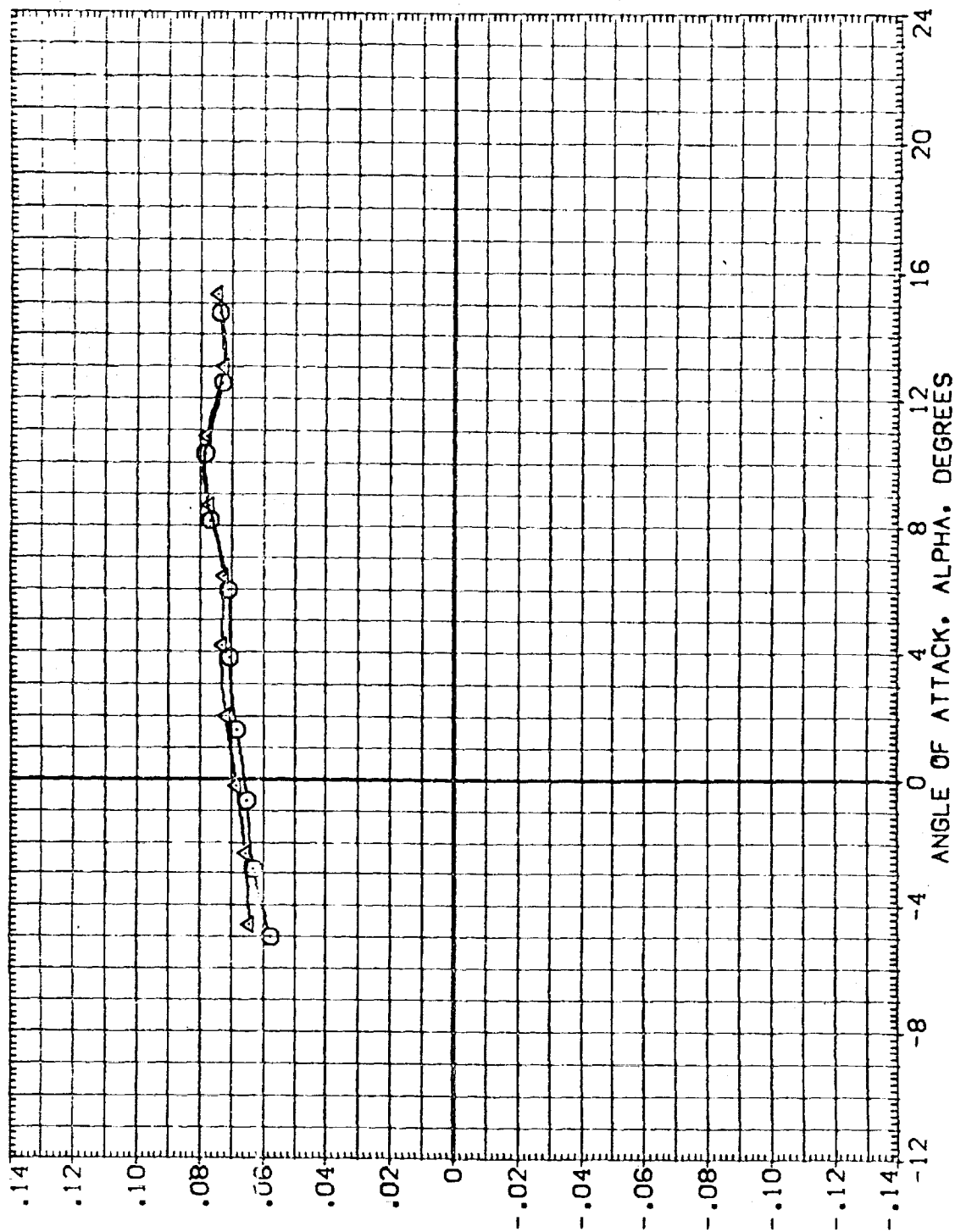


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOE LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CMAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

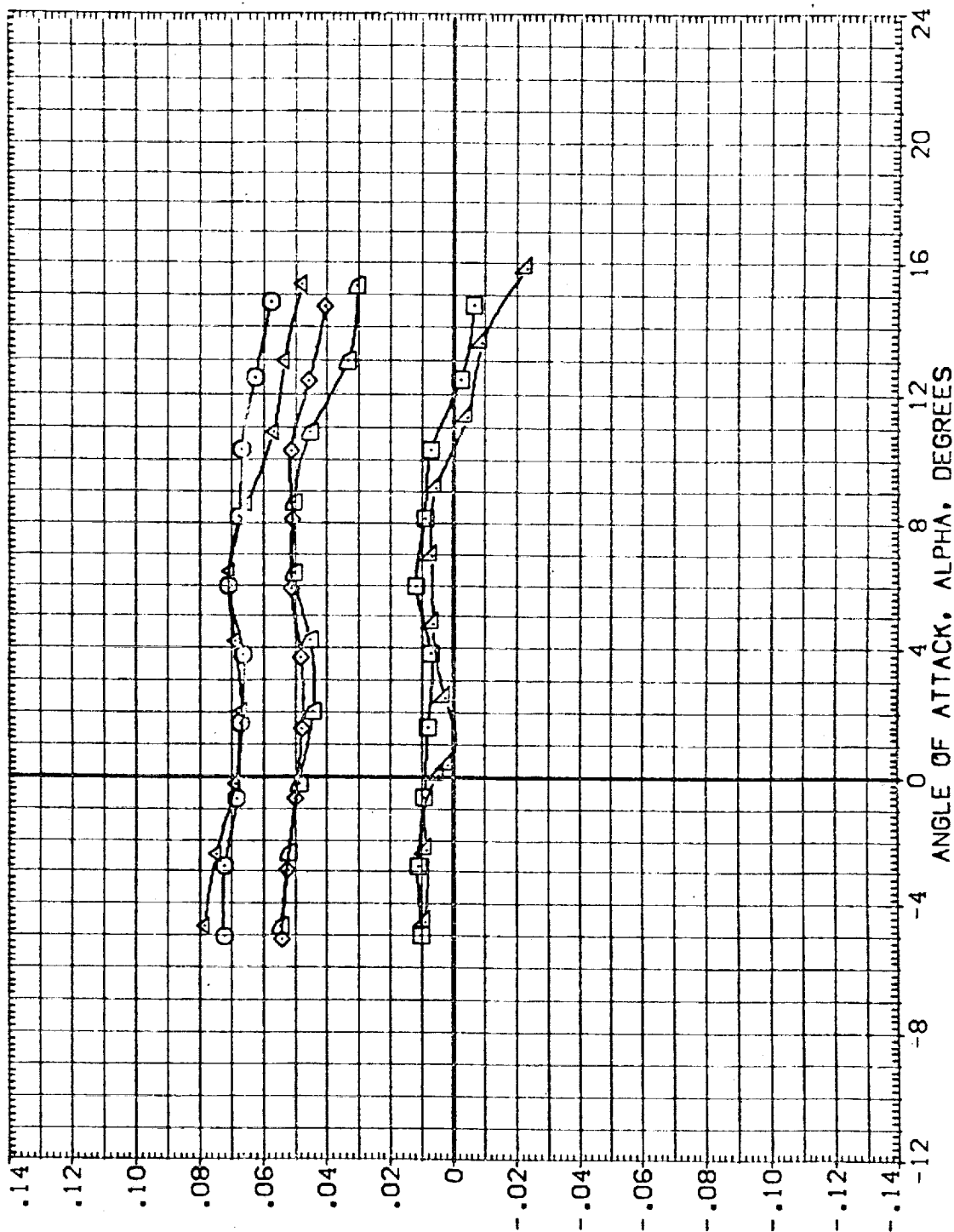
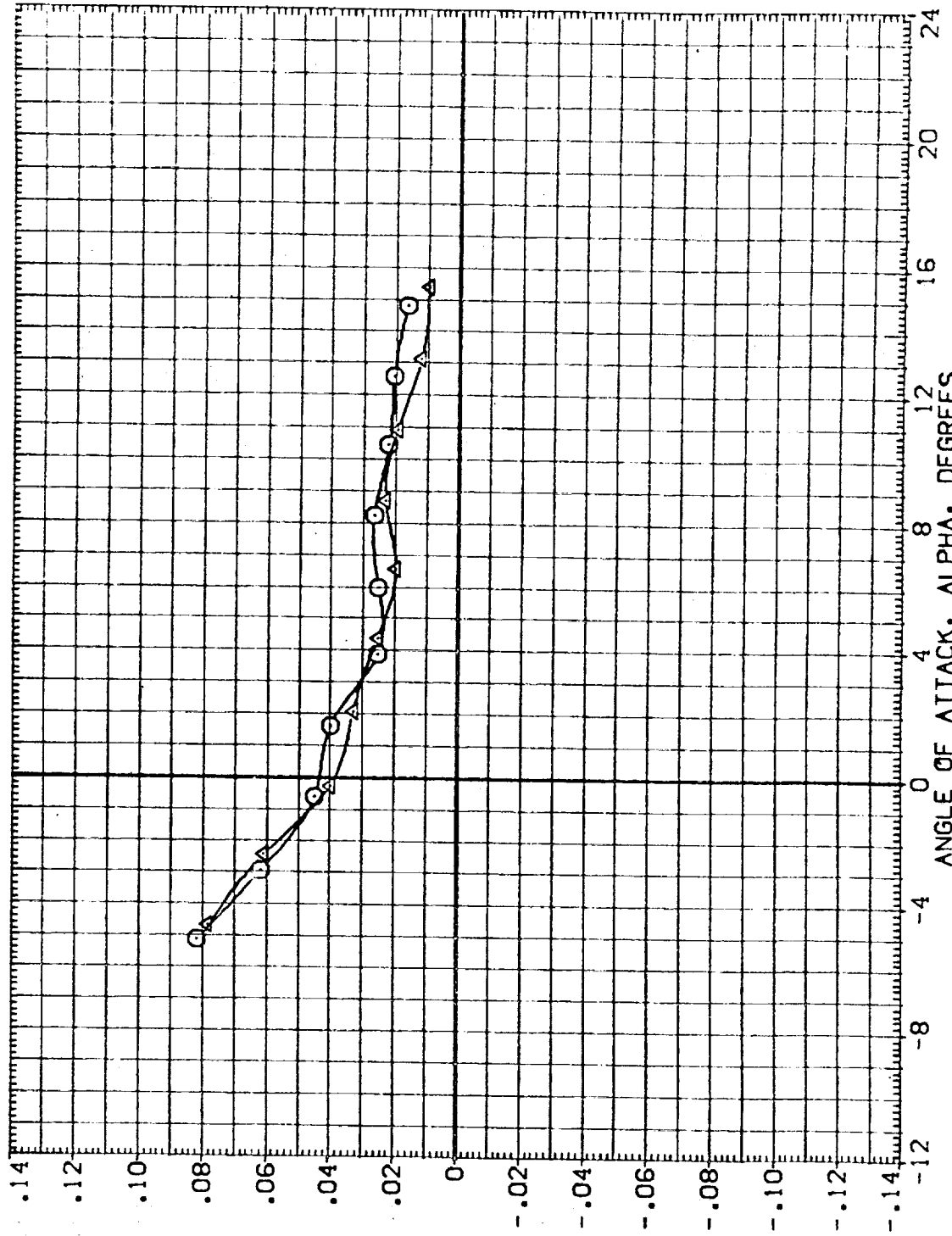


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



Balance Aft Pitching-Moment Coefficient, CLMAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

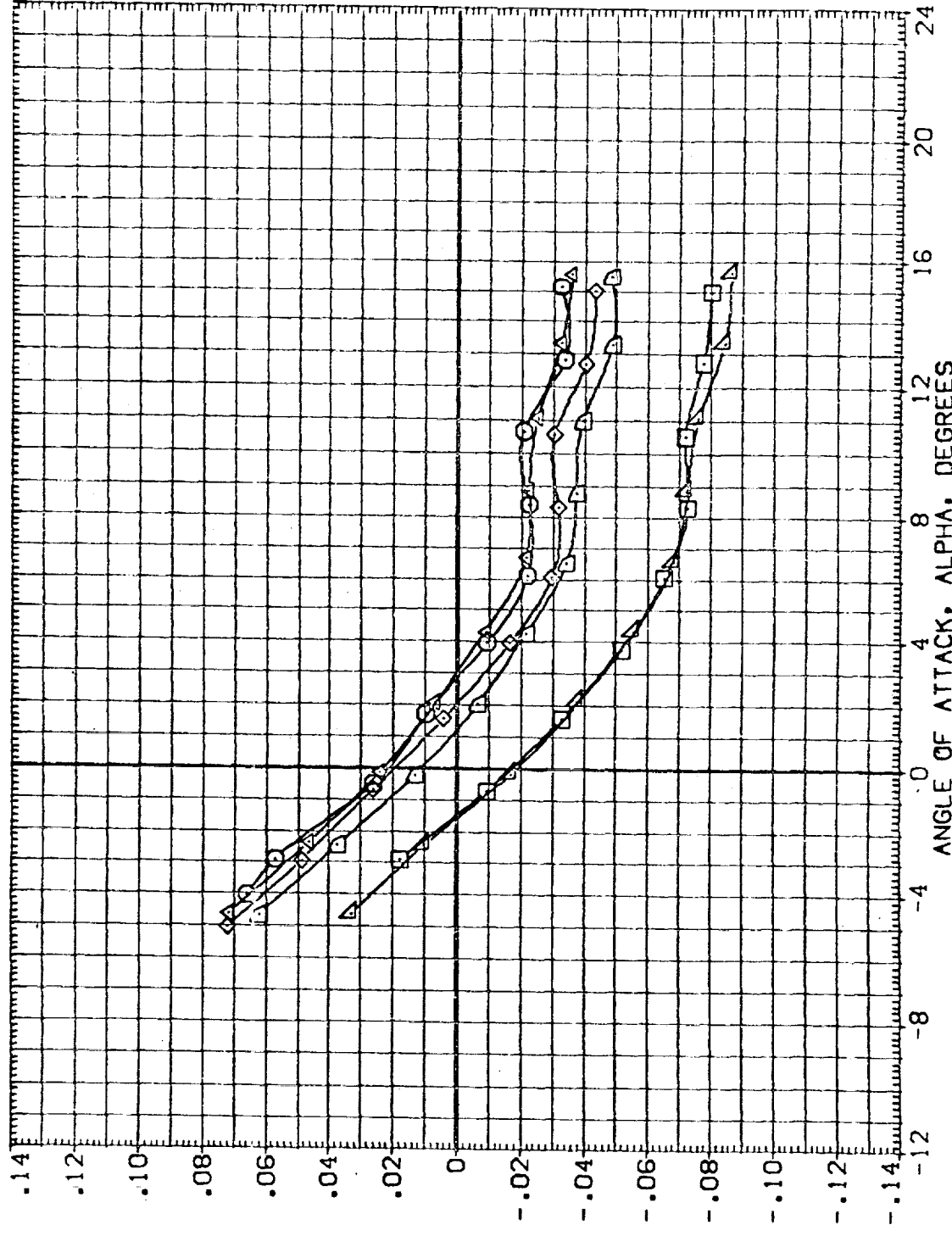
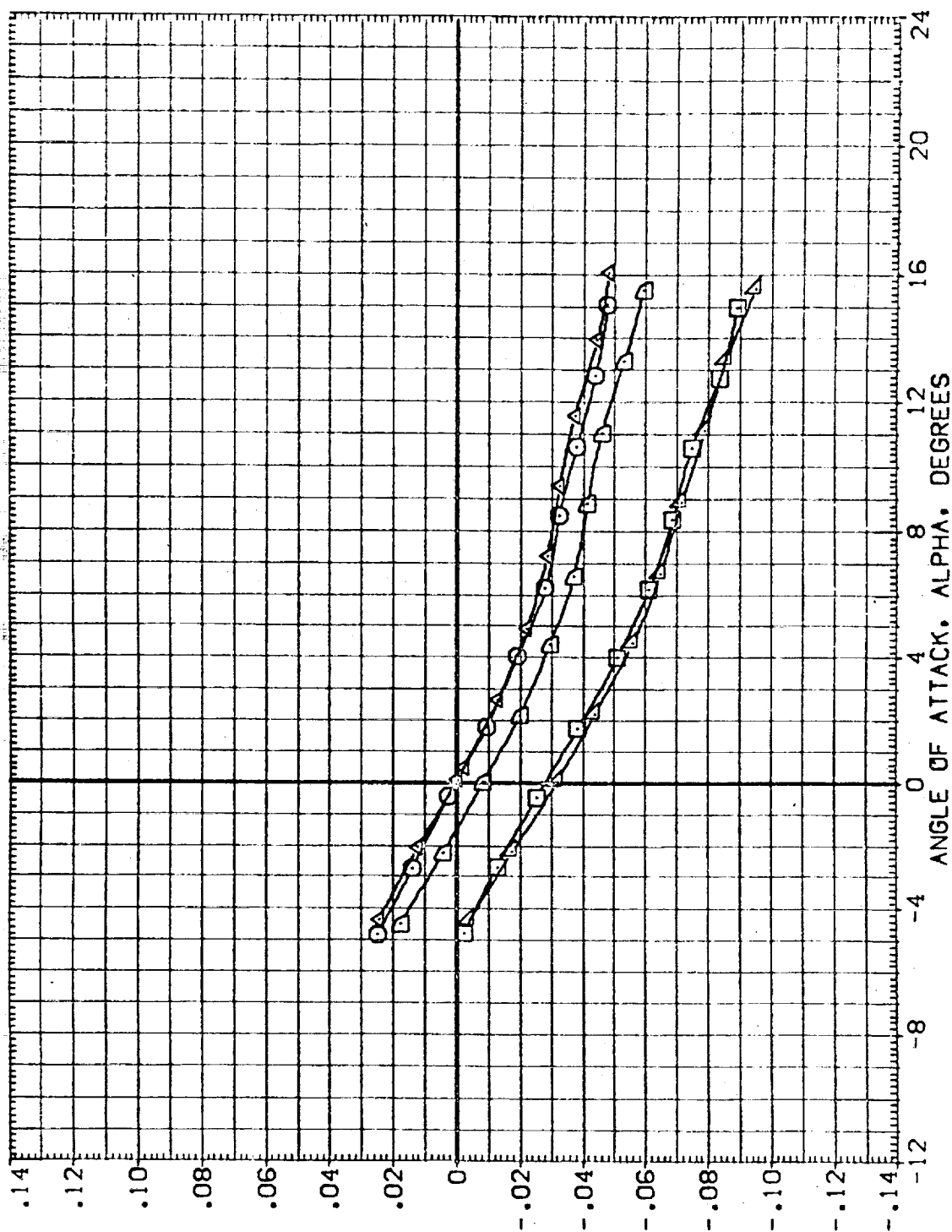


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.
					SCALE .0150



CLMAFI

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[CER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .8053 SQ.FT.
[CER005]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
[CER006]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
[CER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[CER014]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[CER015]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

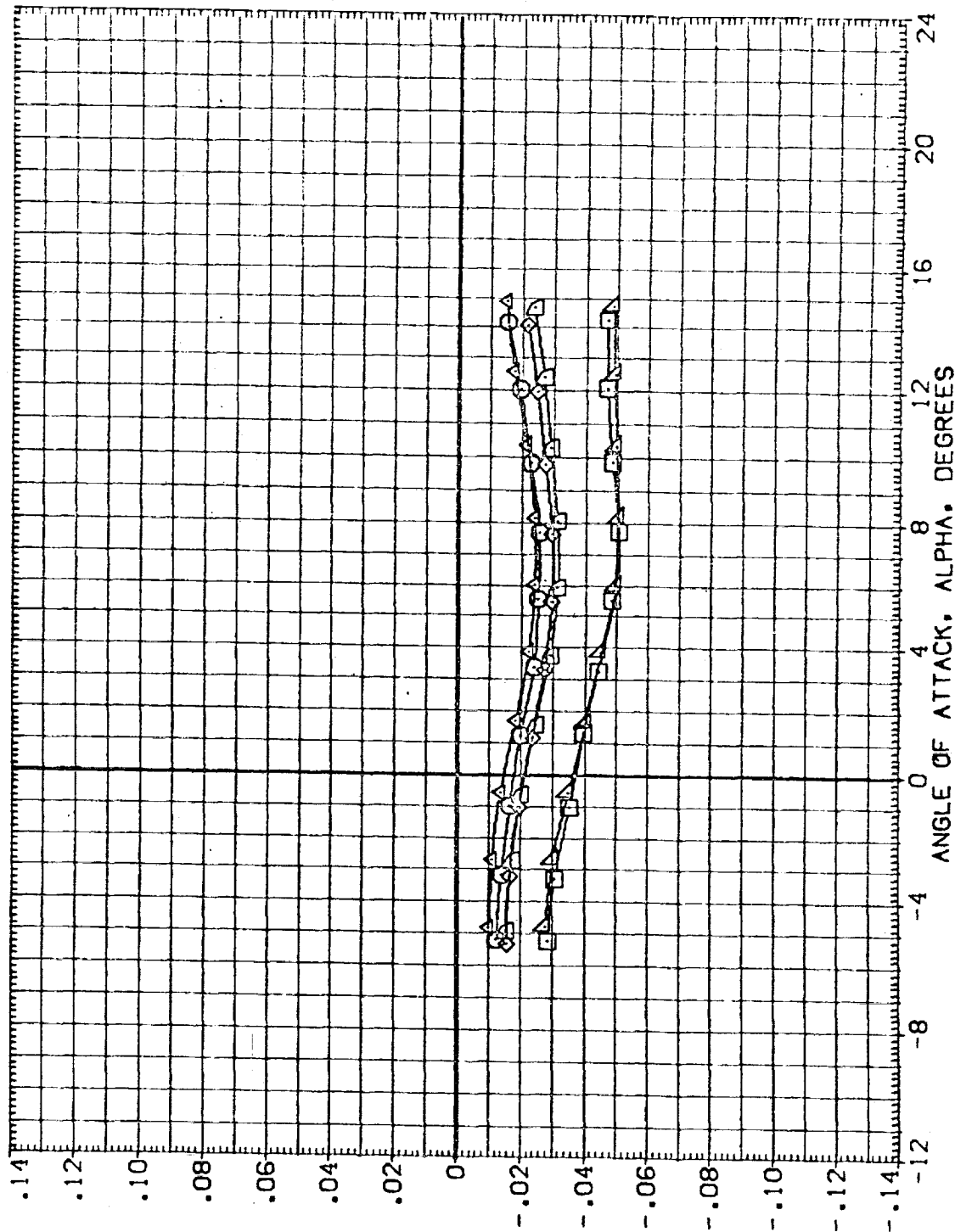


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SO.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

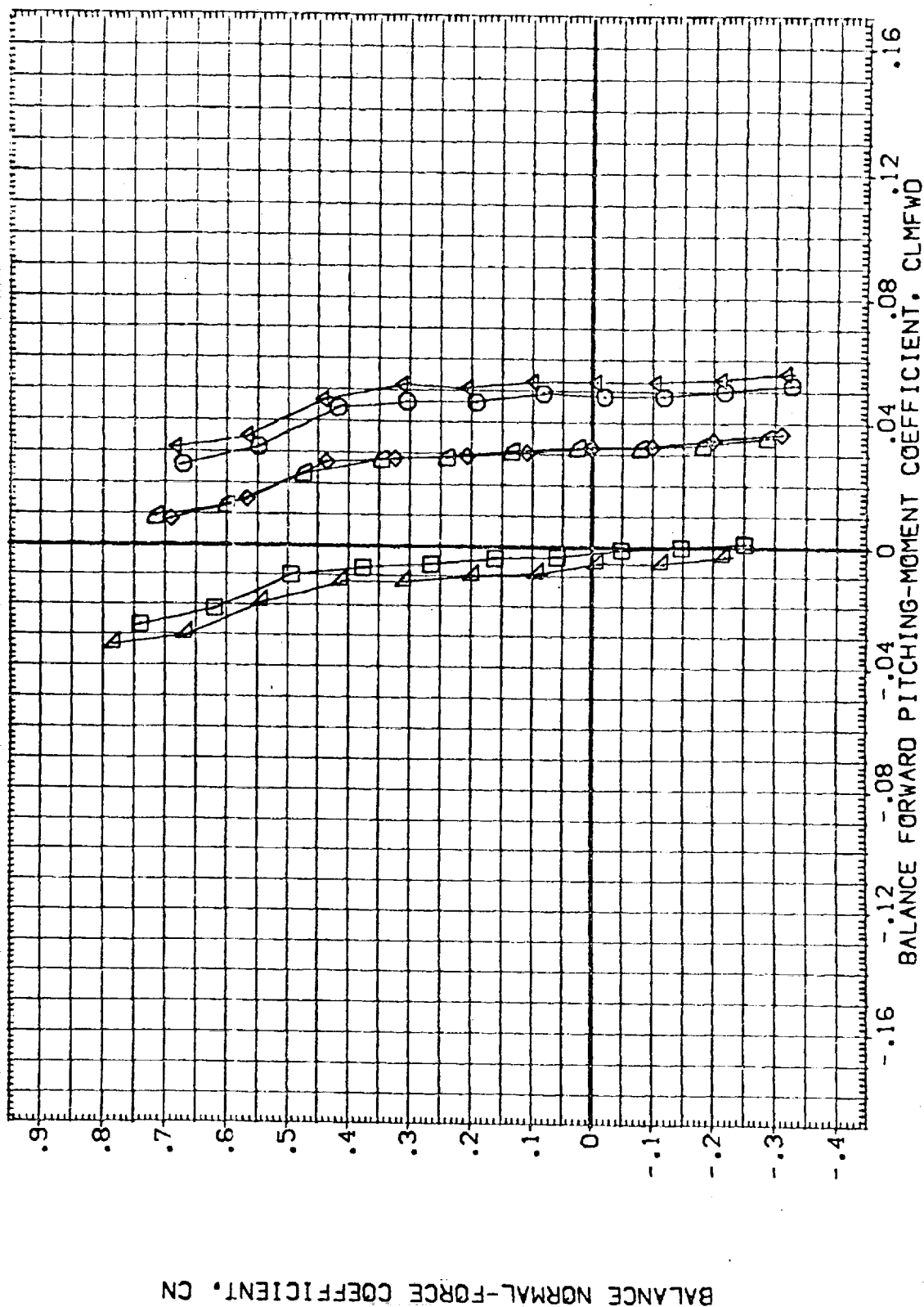


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

[CER001]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
[CER005]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
[CER006]	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
[CER012]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	XMRP 12.6755 IN.
[CER014]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[CER015]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.

SCALE .0150

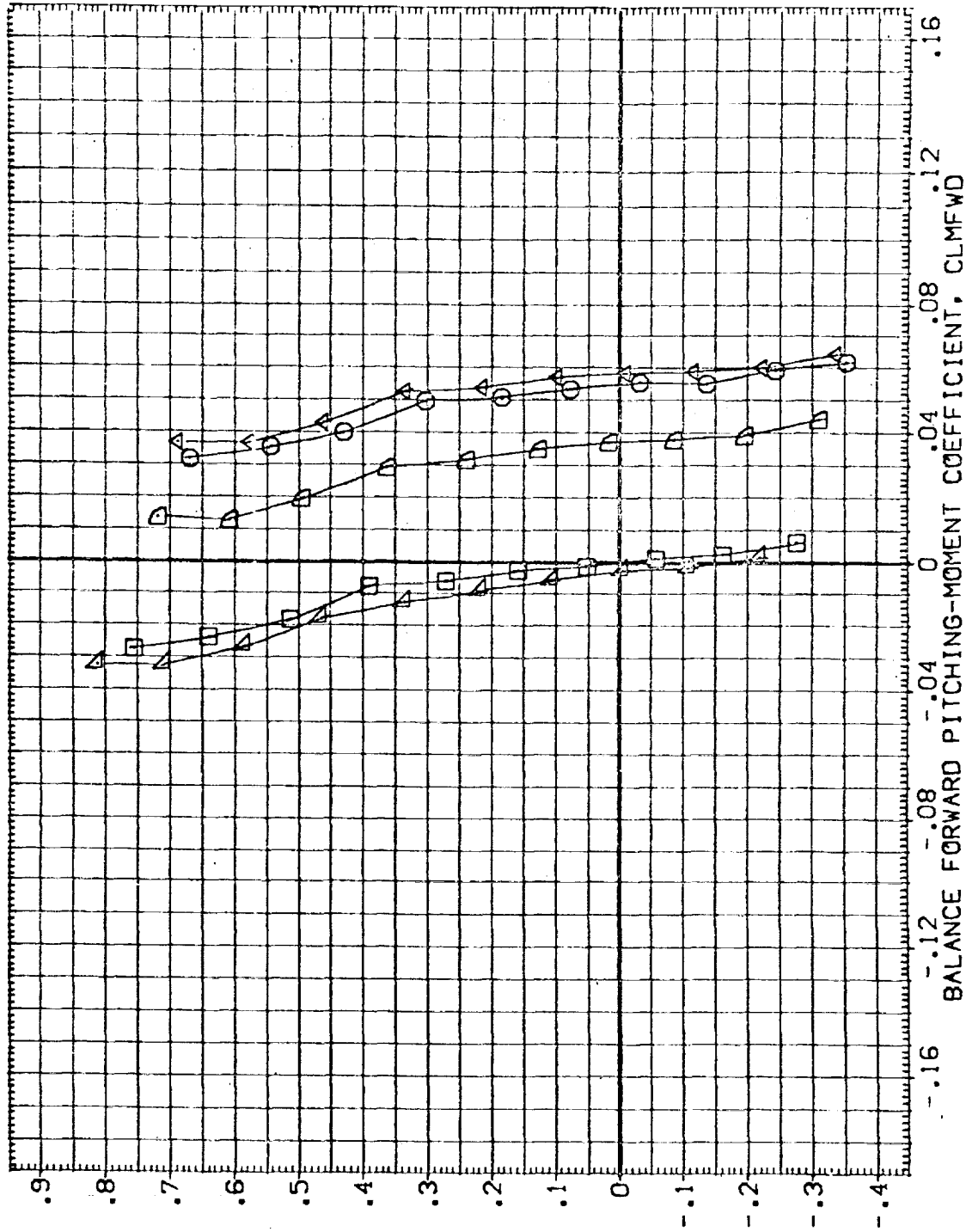


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(CER001)    ARC 66-709 OAS9 0A11A-(N24 RS VB1)+STRUT+DUM STNG    .000    .000    -11.700    SREF    .6053    SQ.FT.

(CER005)    DATA NOT AVAILABLE    .000    .000    16.300    LREF    .5935    FT.

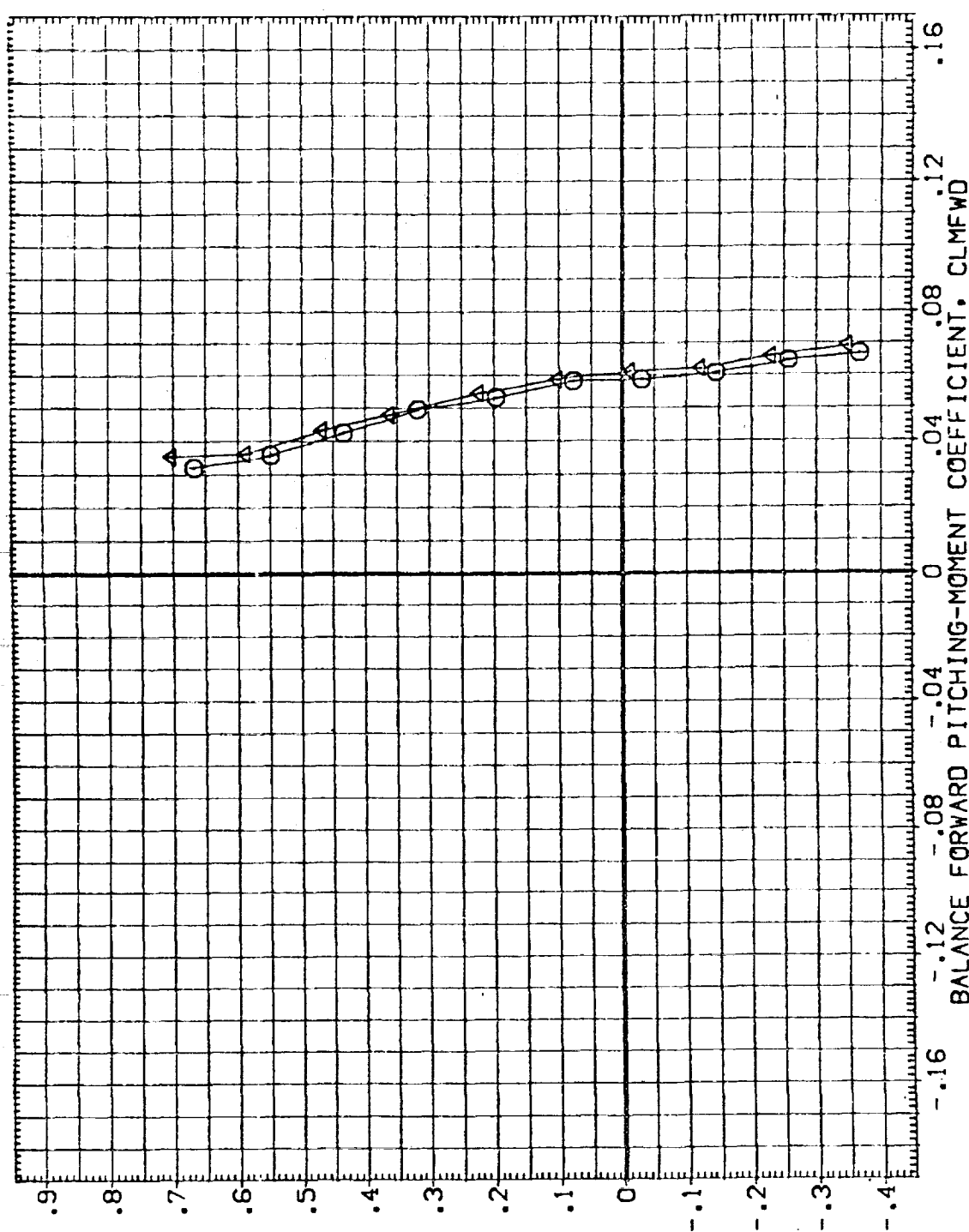
(CER006)    DATA NOT AVAILABLE    .000    .000    -11.700    BRFP    1.1710    FT.

(CER012)    ARC 66-709 OAS9 0A11A-(RS VB1)+STRUT    .000    .000    16.300    XMRP    12.6755    IN.

(CER014)    DATA NOT AVAILABLE    .000    .000    .000    YMRP    -0.000    IN.

(CER015)    DATA NOT AVAILABLE    .000    .000    .0150    ZMRP    -.3750    IN.

SCALE



BALANCE NORMAL-FORCE COEFFICIENT, CN

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

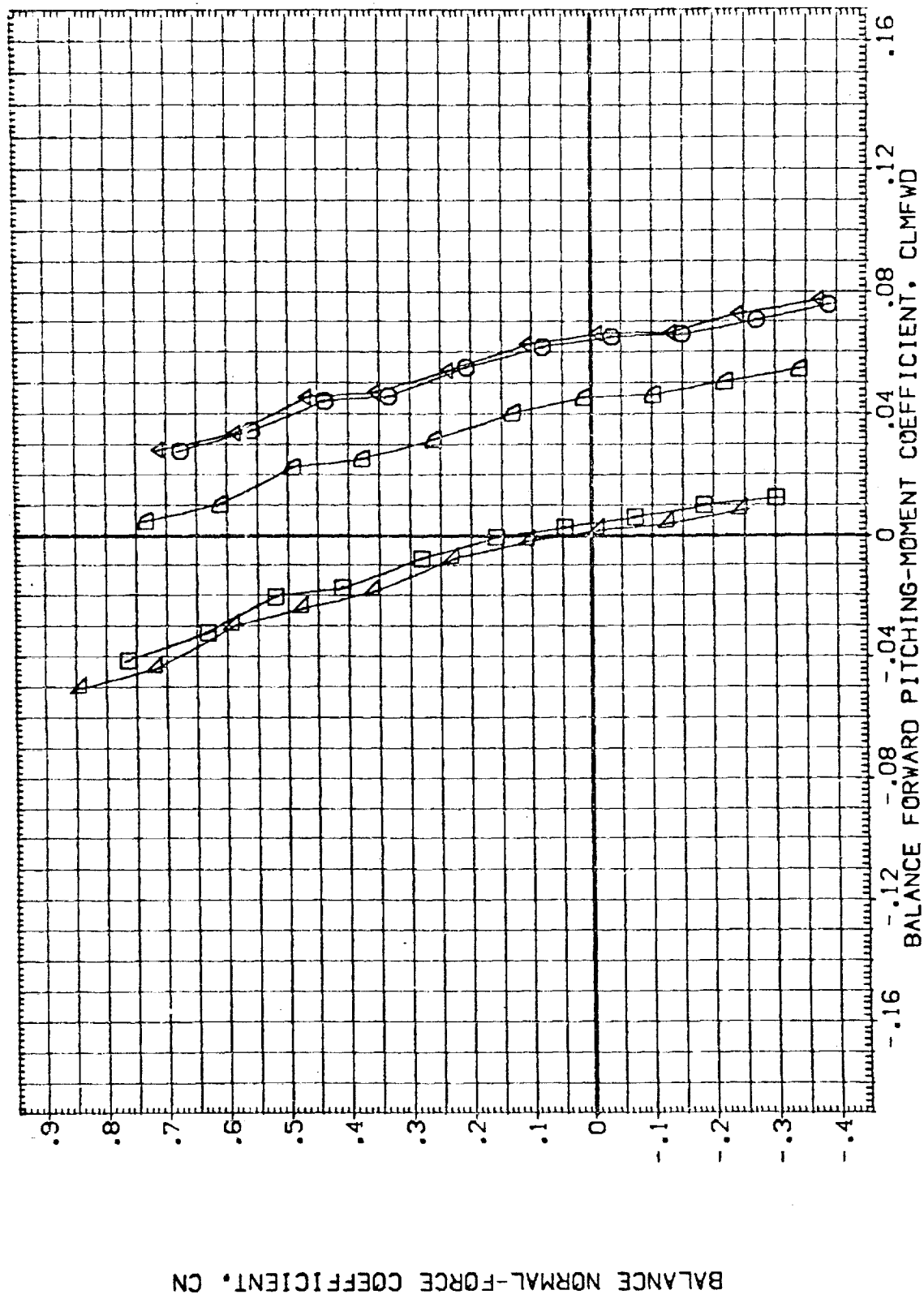


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5335	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON BOFLAP

.000	-11.700
.000	16.300
.000	.000
.000	-11.700
.000	16.300
.000	.000

BETA

.000
.000
.000
.000
.000
.000

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG
DATA NOT AVAILABLE
ARC 66-709 0A59 0A11A-(RS V81)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

DATA SET SYMBOL

(CER001)	○
(CER005)	×
(CER006)	△
(CER012)	○
(CER014)	△
(CER015)	○

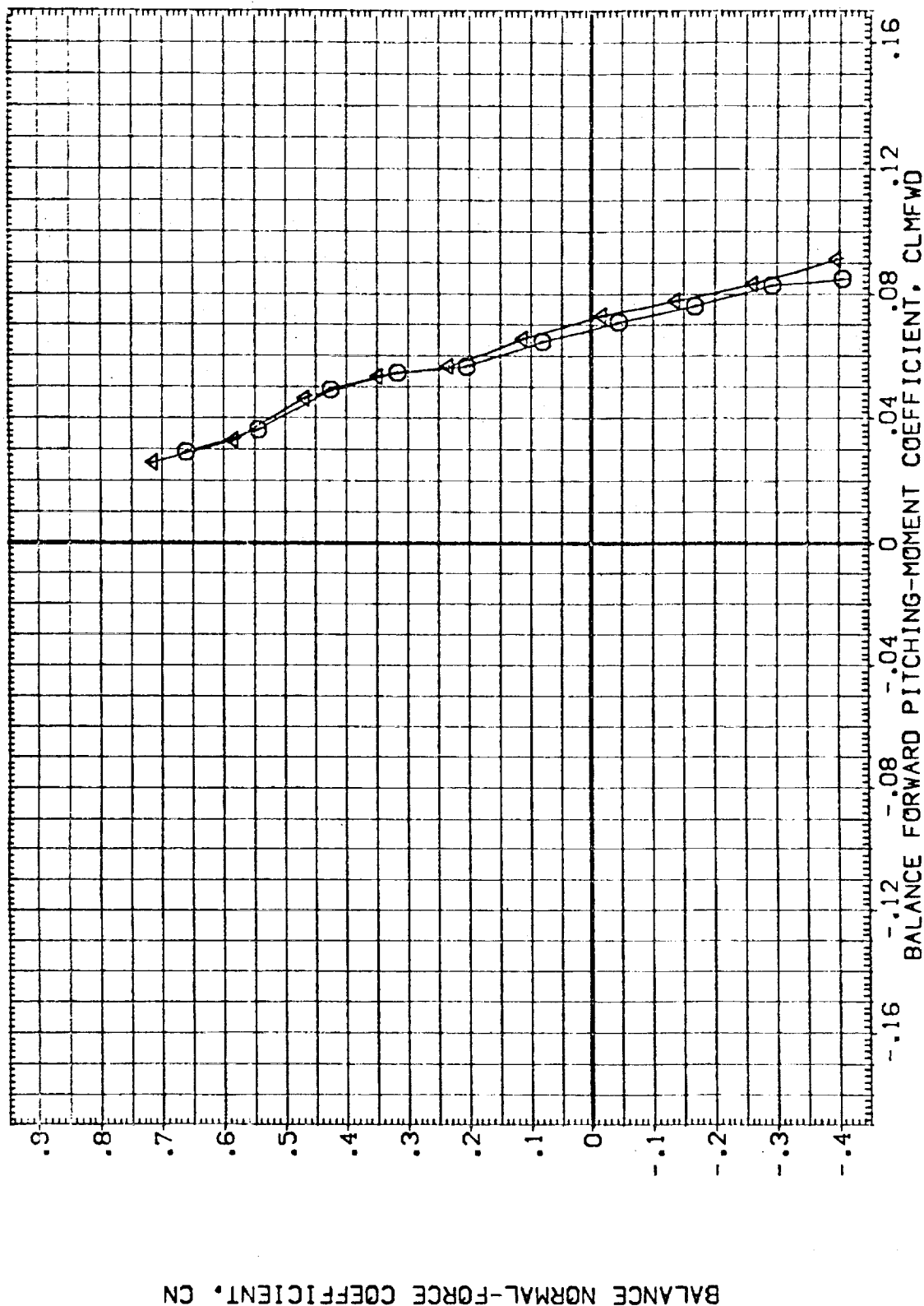


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

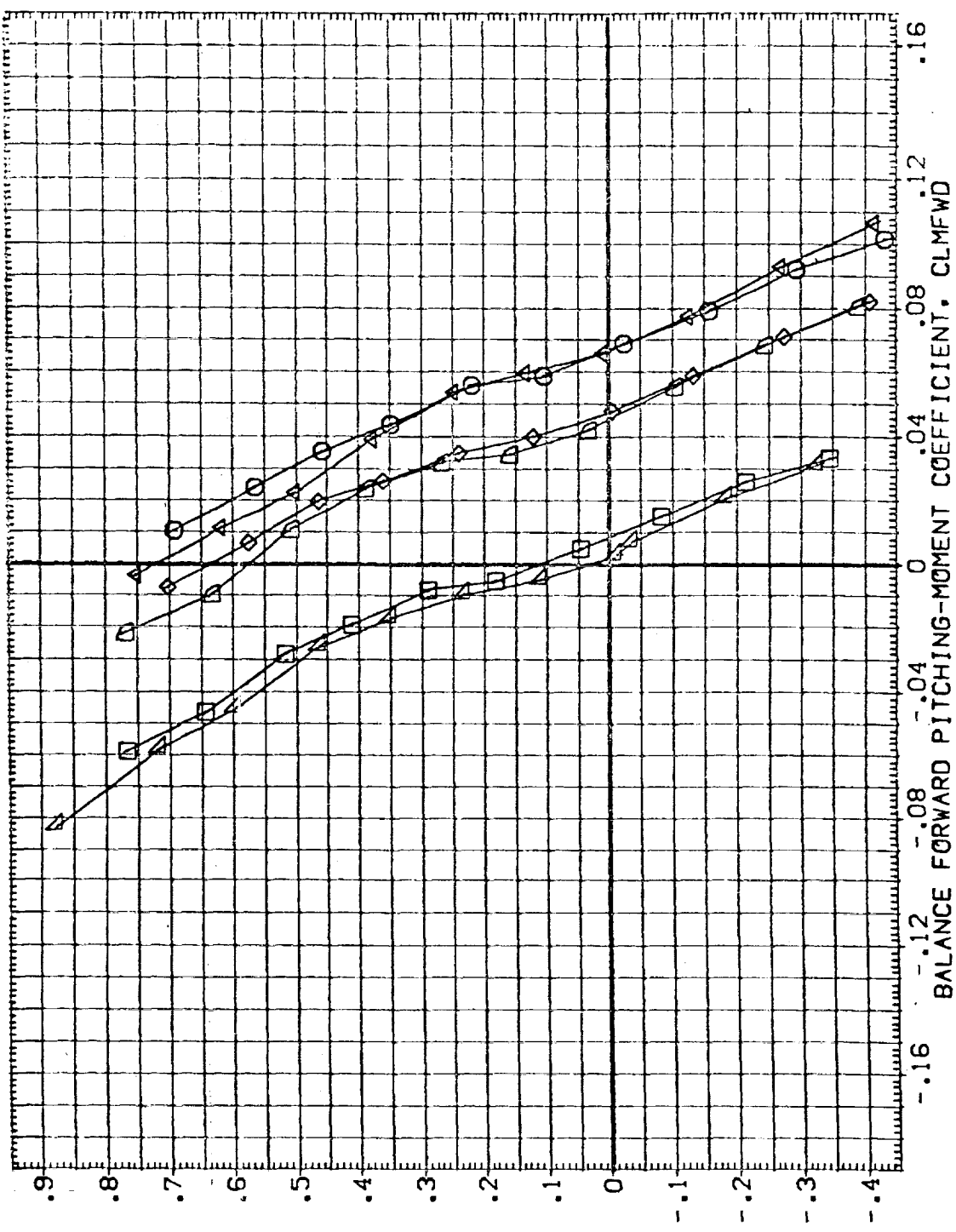


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 0A11A-(N24 R5 V81)+STRUT+OUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

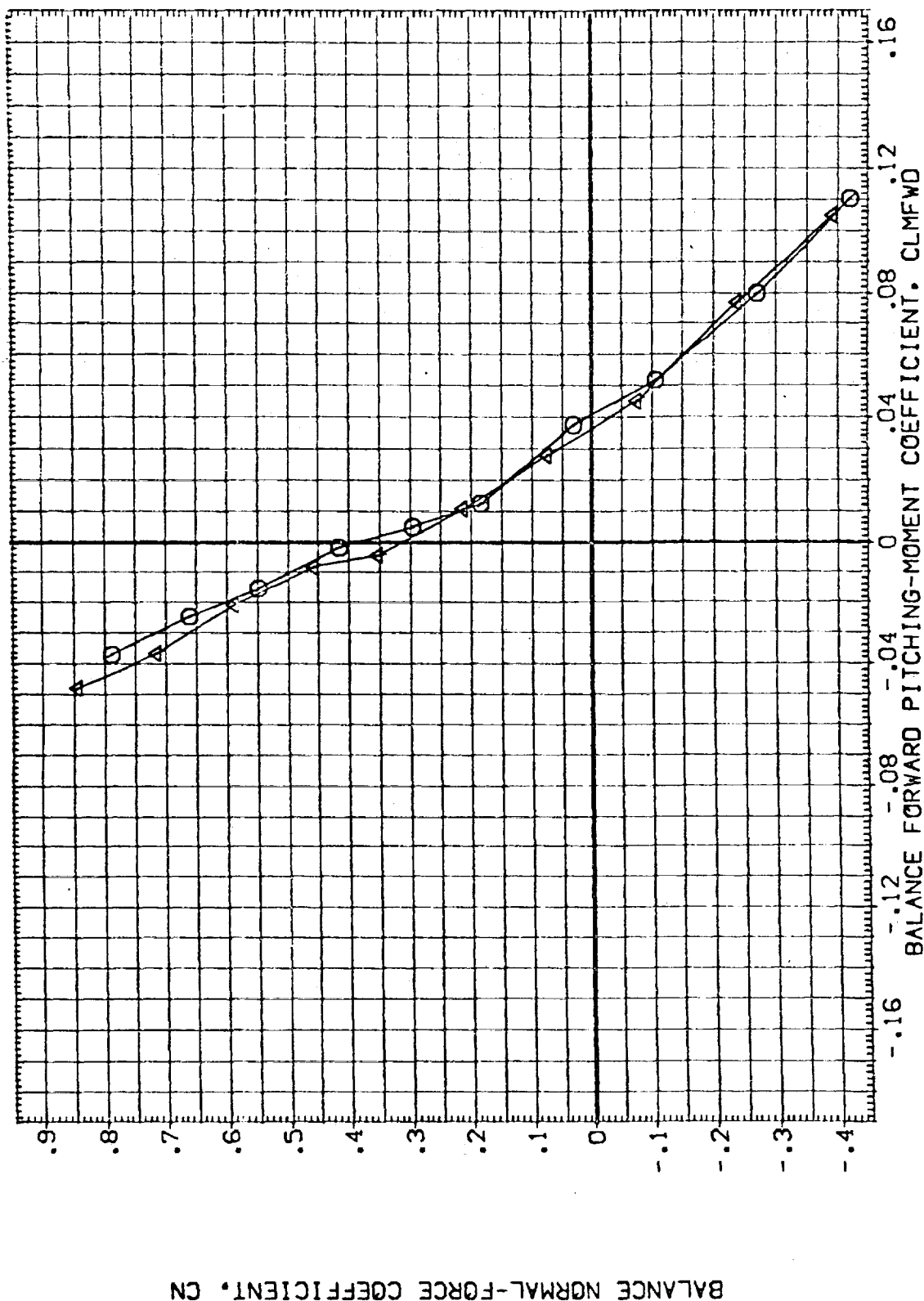


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY FLAP    REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.

SCALE .0150

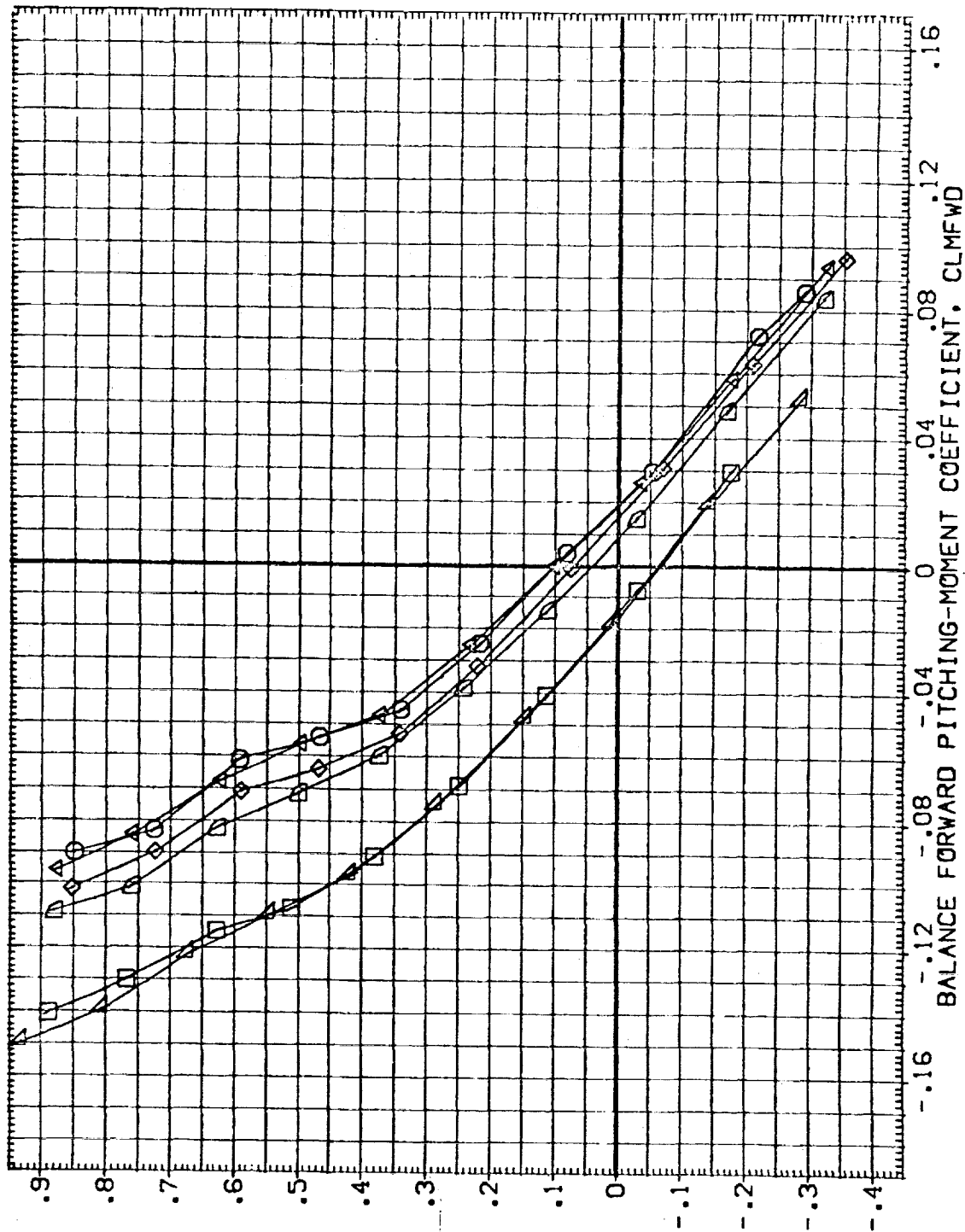


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



DATA SET SYMBOL

CONF IGURATION DESCRIPTION

ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING

ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING

DATA NOT AVAILABLE

ARC 66-709 DA59 DA11A-(RS V8)+STRUT

ARC 66-709 DA59 DA11A-(RS V8)+STRUT

ARC 66-709 DA59 DA11A-(RS V8)+STRUT

BETA

ELEVON

BOFLAP

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6755 IN.

YMRP .000 IN.

ZMRP -.3750 IN.

SCALE .0150

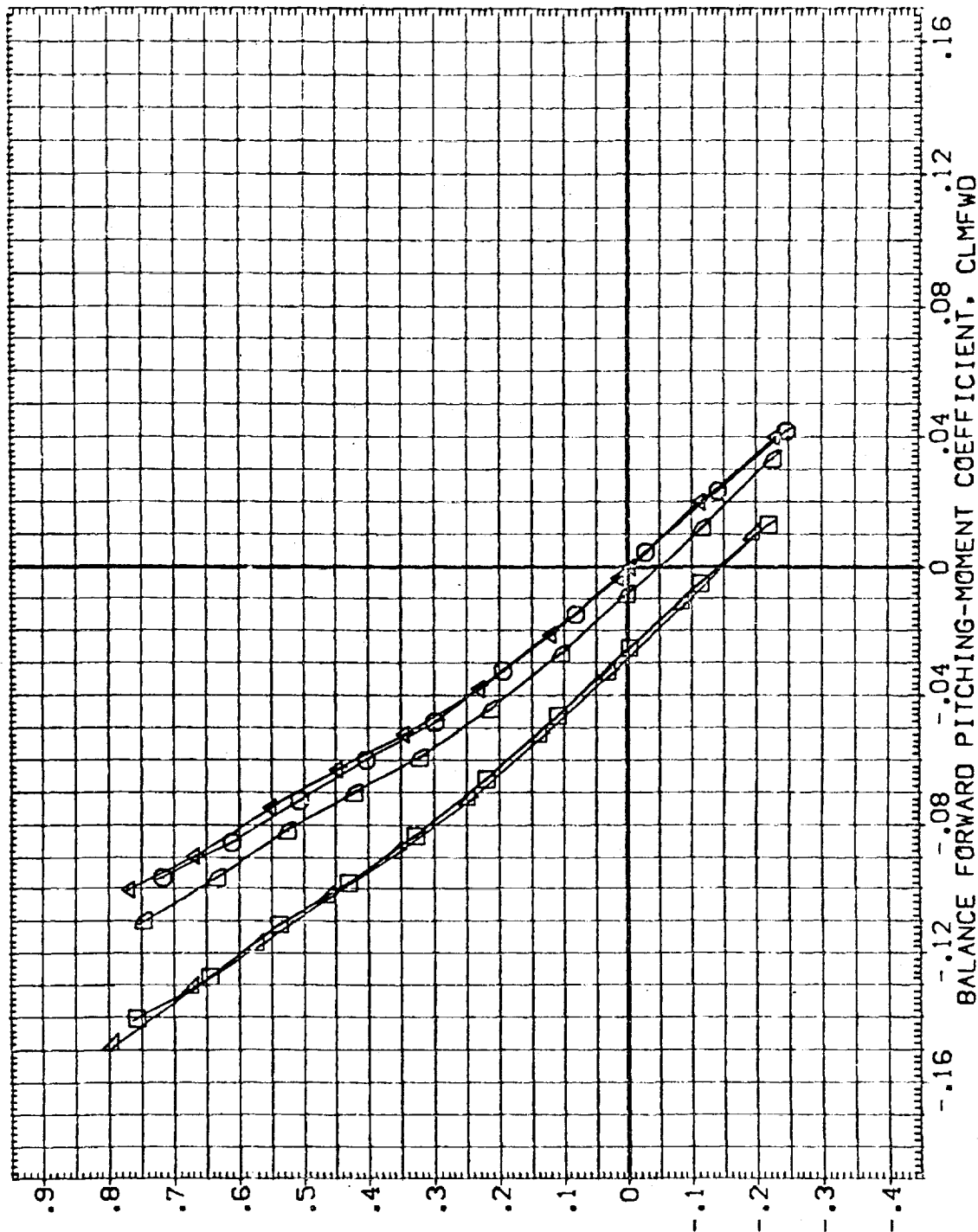


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF -6053 50. FT
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF -5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

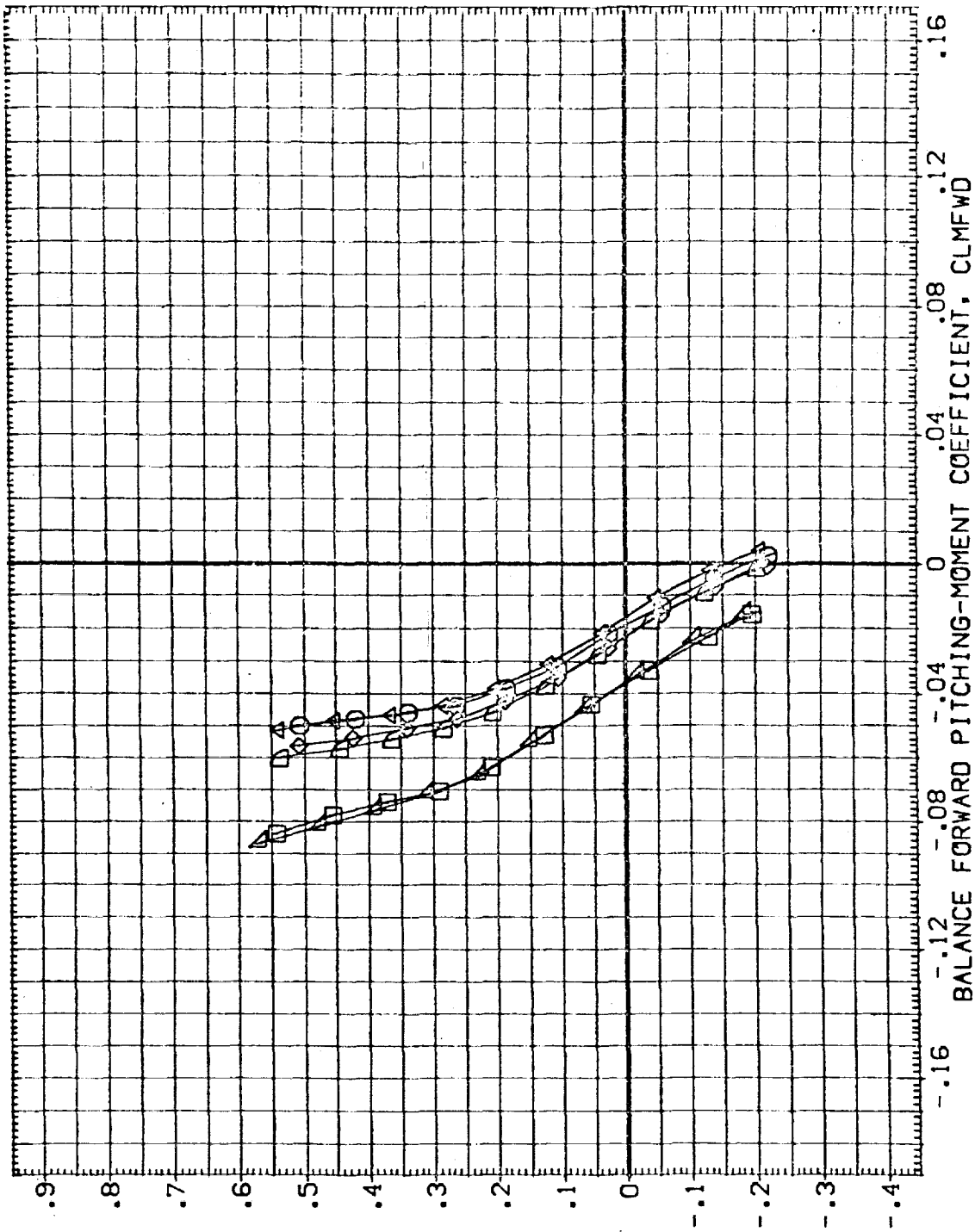


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

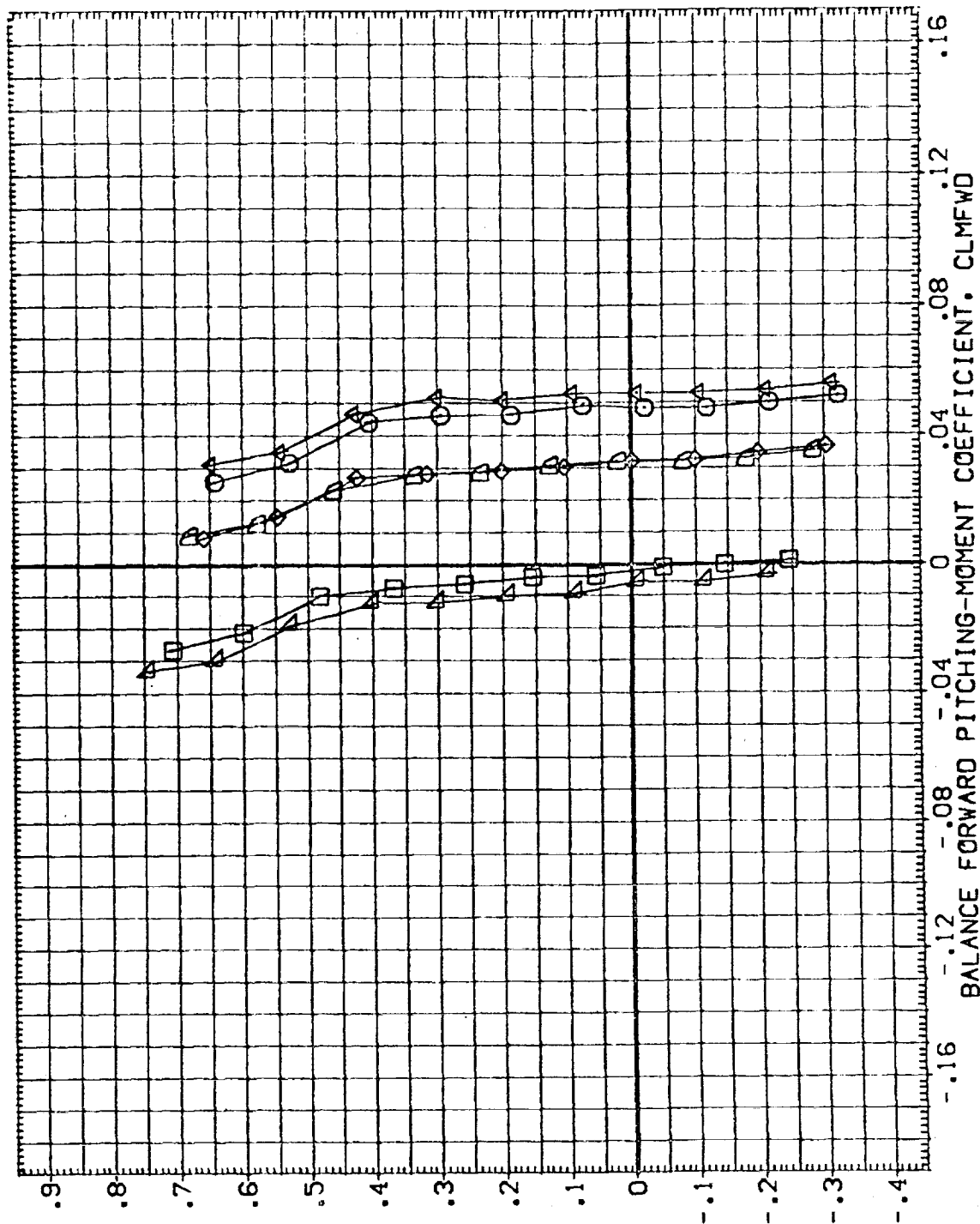


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

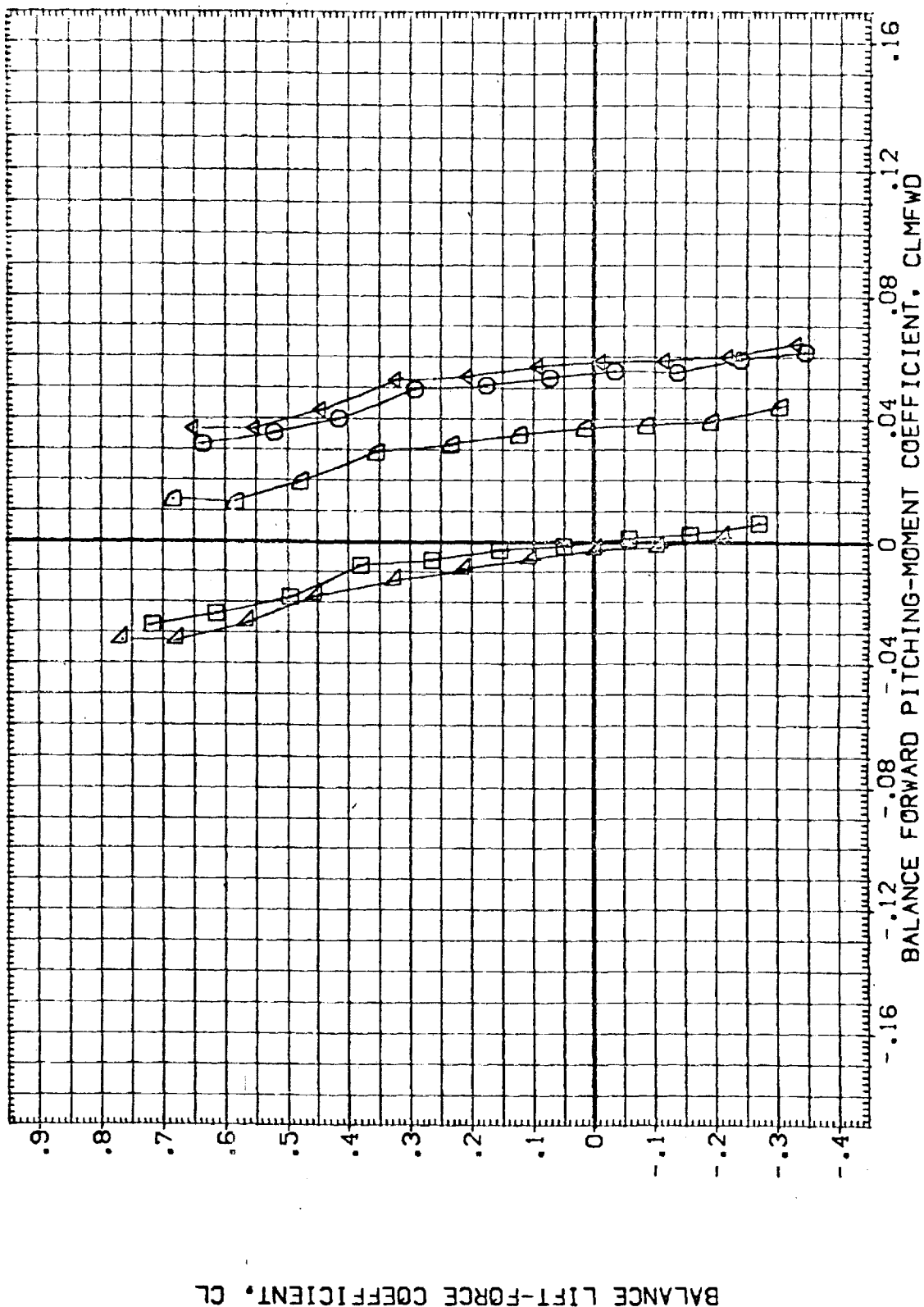


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY FLAP    REFERENCE INFORMATION

(CER001)	ARC 66-709 QAS9 QAL11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 QAL11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

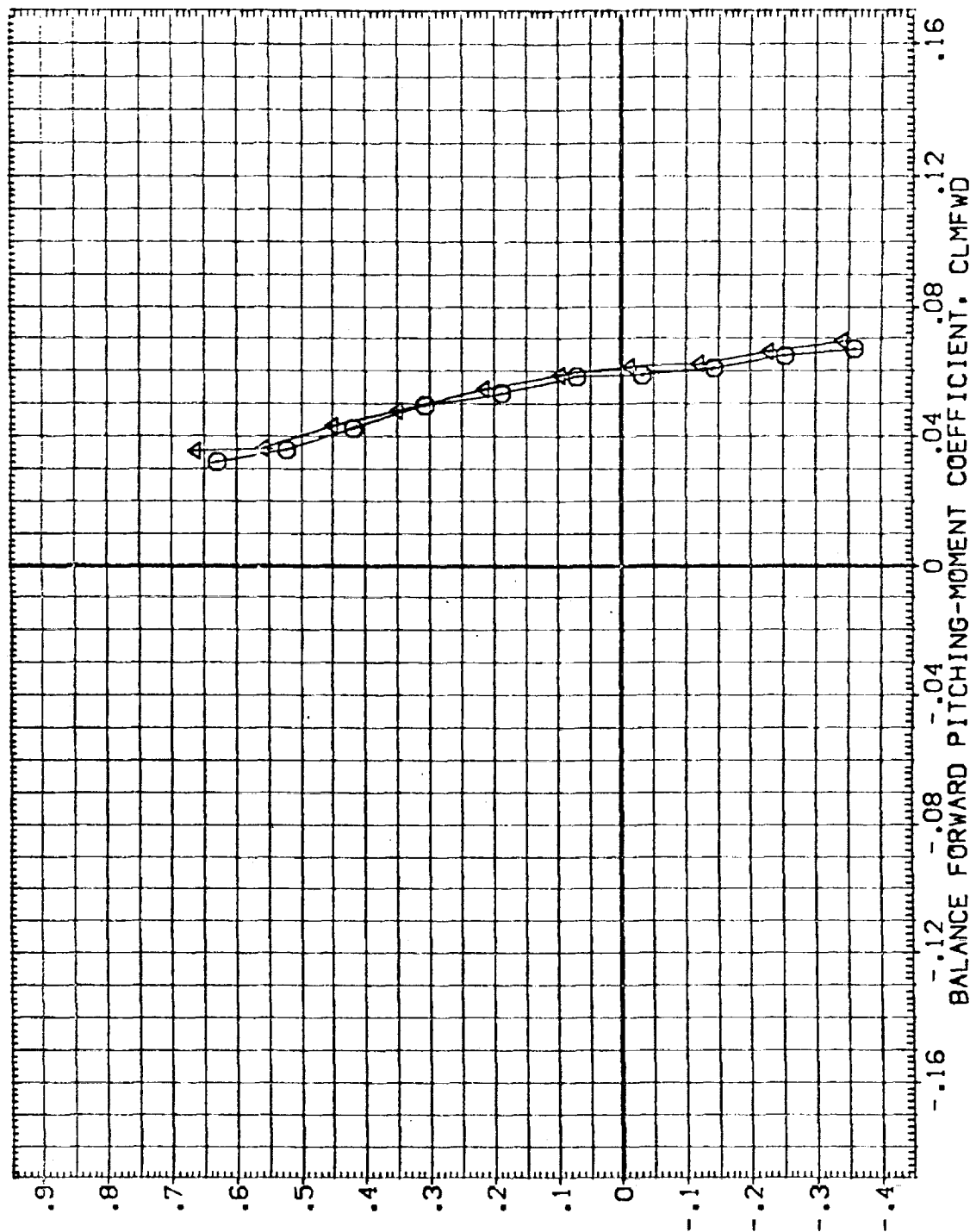


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

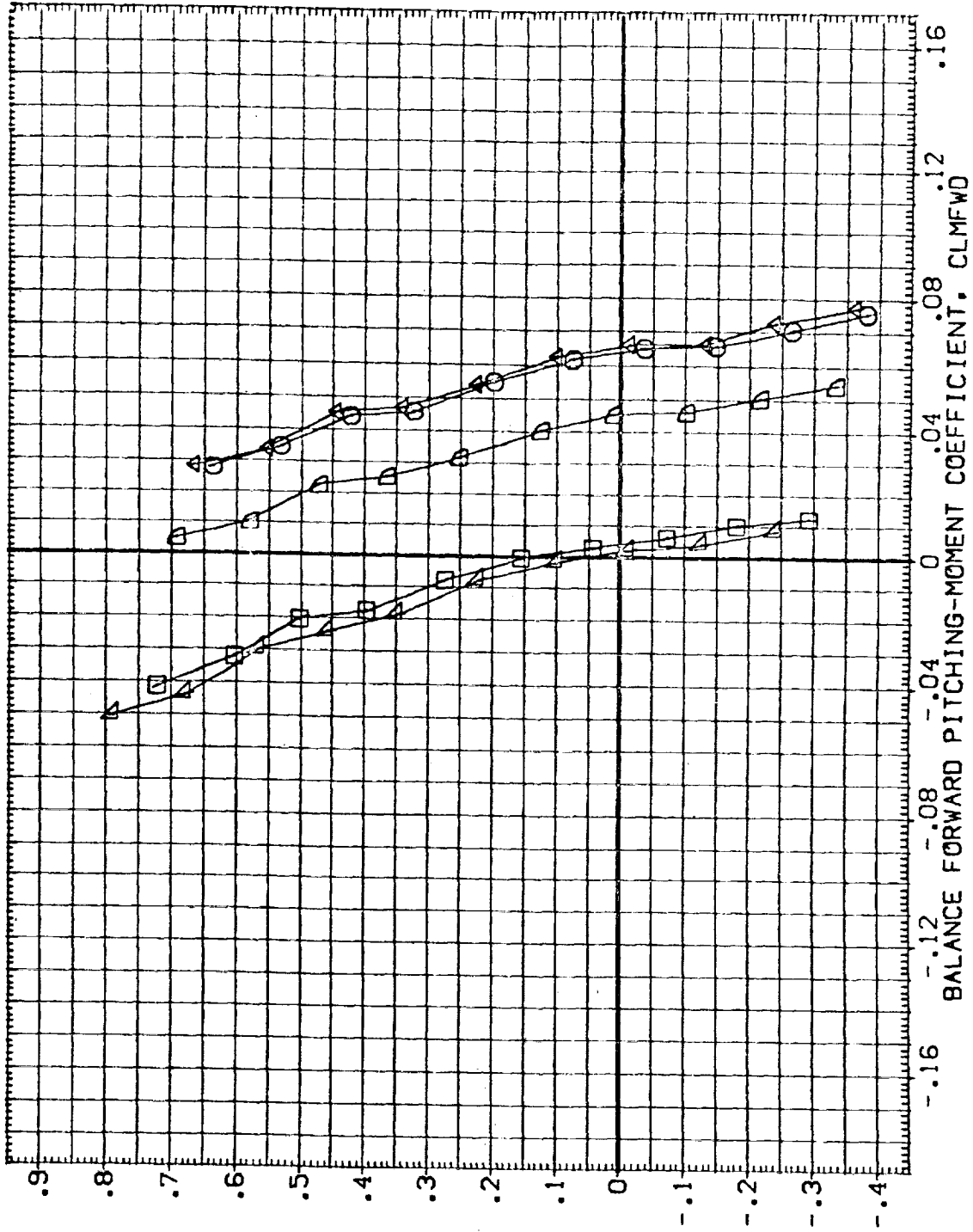
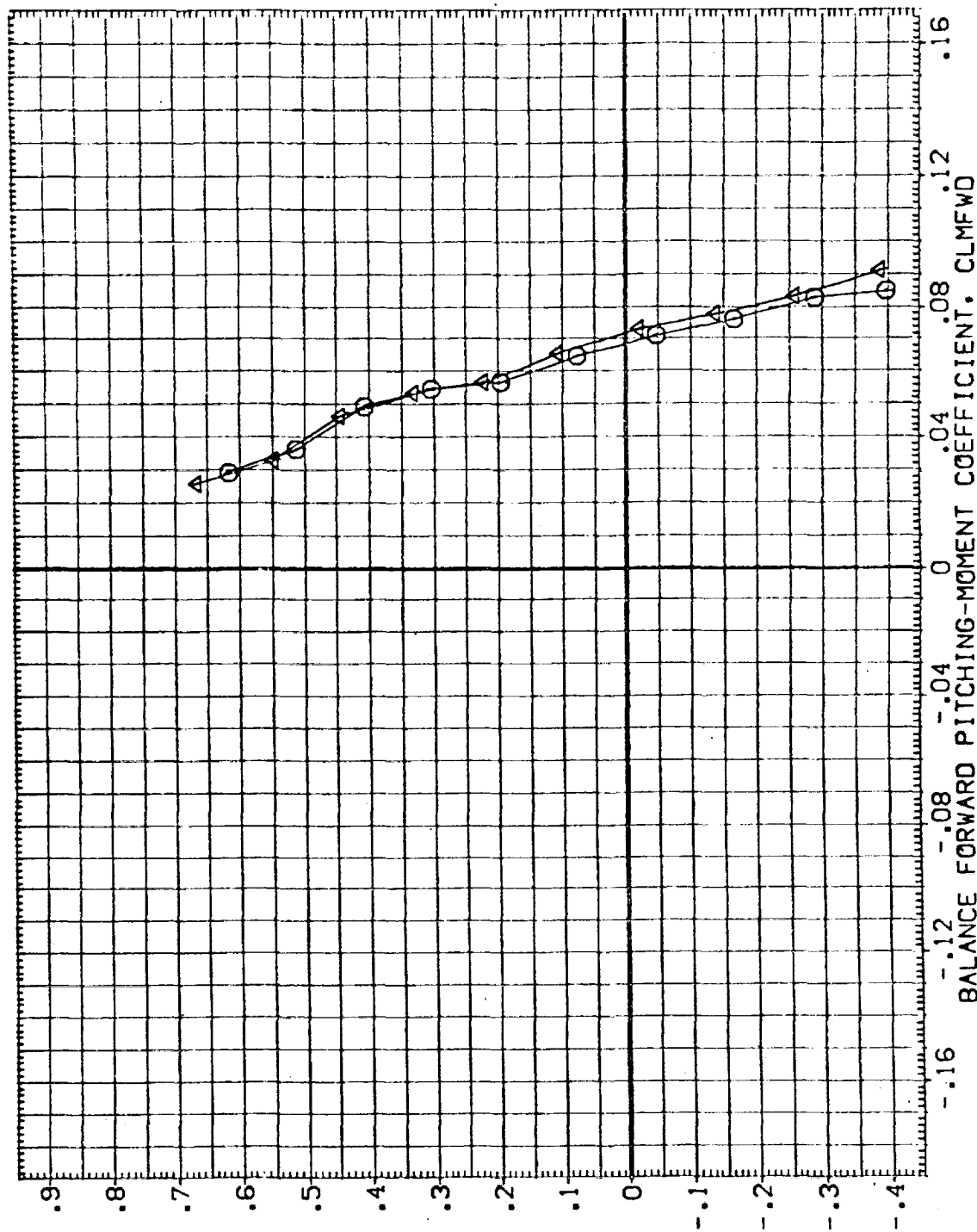


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(DJM)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
{CER015}	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



Balance Lift-Force Coefficient, CL

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80° FLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50. FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

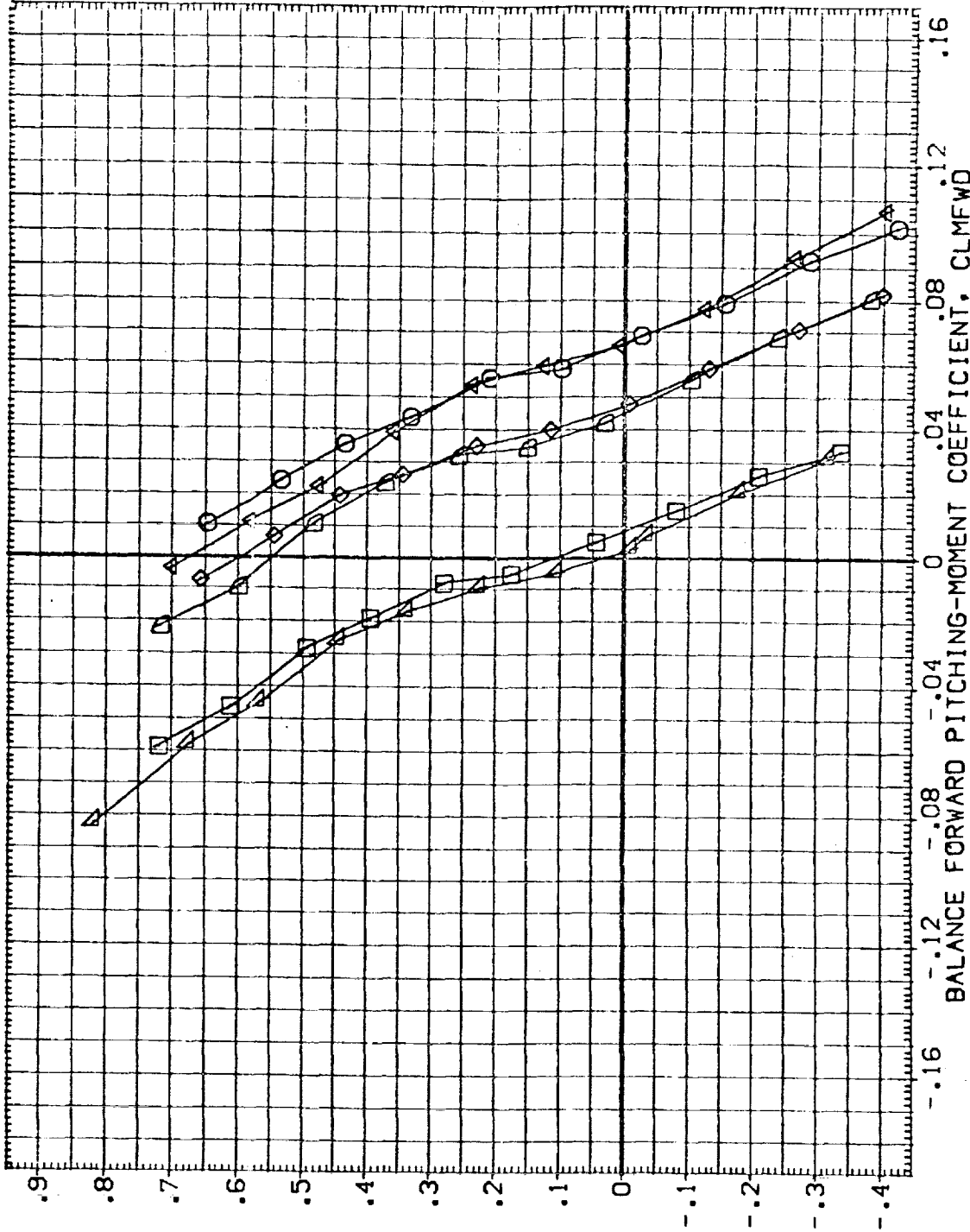


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE -.3750 IN.

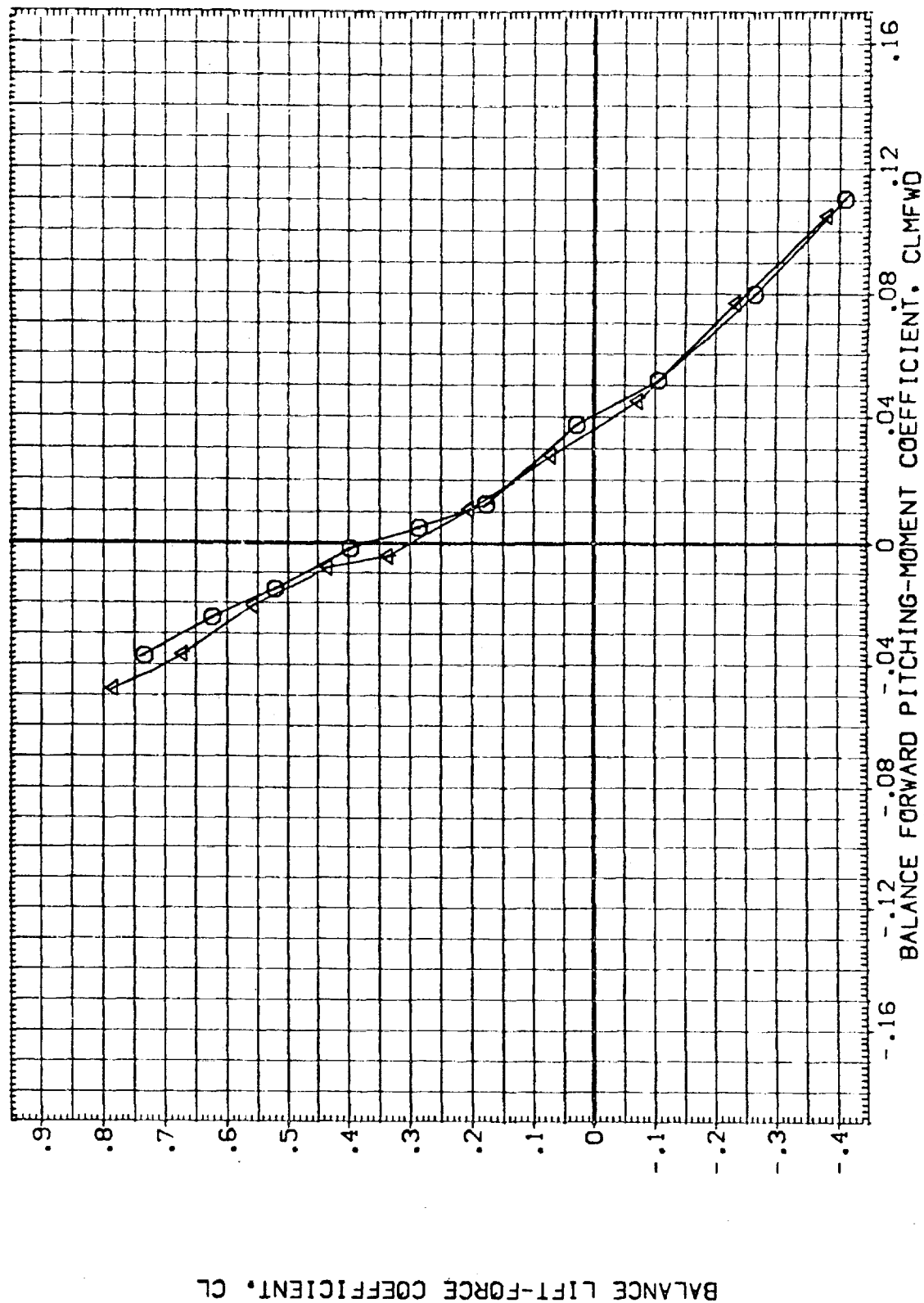


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

(CER001)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    .000    -11.700  
 (CER005)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    .000    16.300  
 (CER006)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG    .000    .000    16.300  
 (CER012)    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    .000    -11.700  
 (CER014)    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    .000    16.300  
 (CER015)    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT    .000    .000    .000

REFERENCE INFORMATION

SREF    .6053    SQ.FT.  
 LREF    .5935    FT.  
 BREF    1.1710    IN.  
 XMRP    12.6255    IN.  
 YMRP    .0000    IN.  
 ZMRP    -.3750    IN.  
 SCALE    .0150

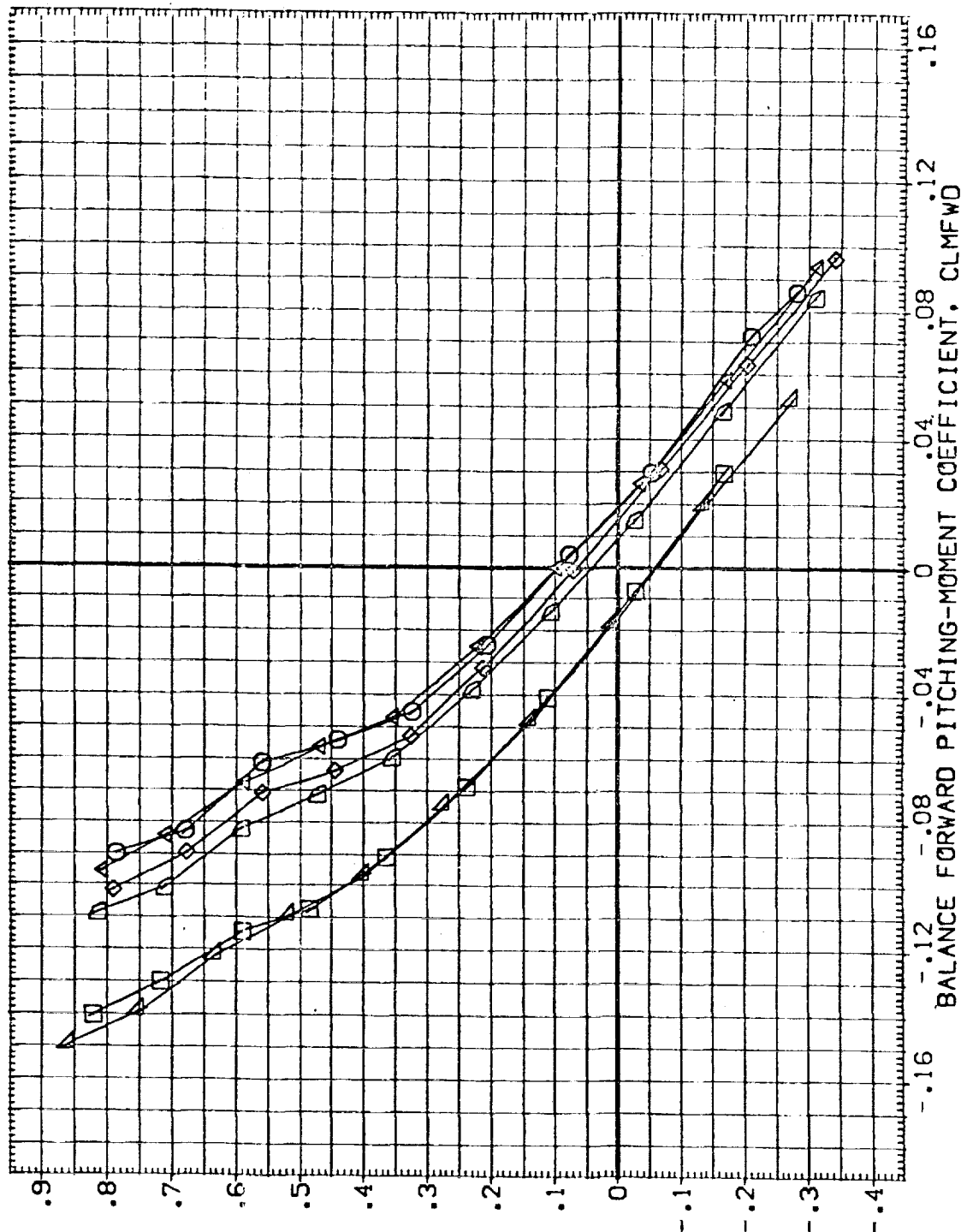


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DASH DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DASH DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 DASH DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DASH DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DASH DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

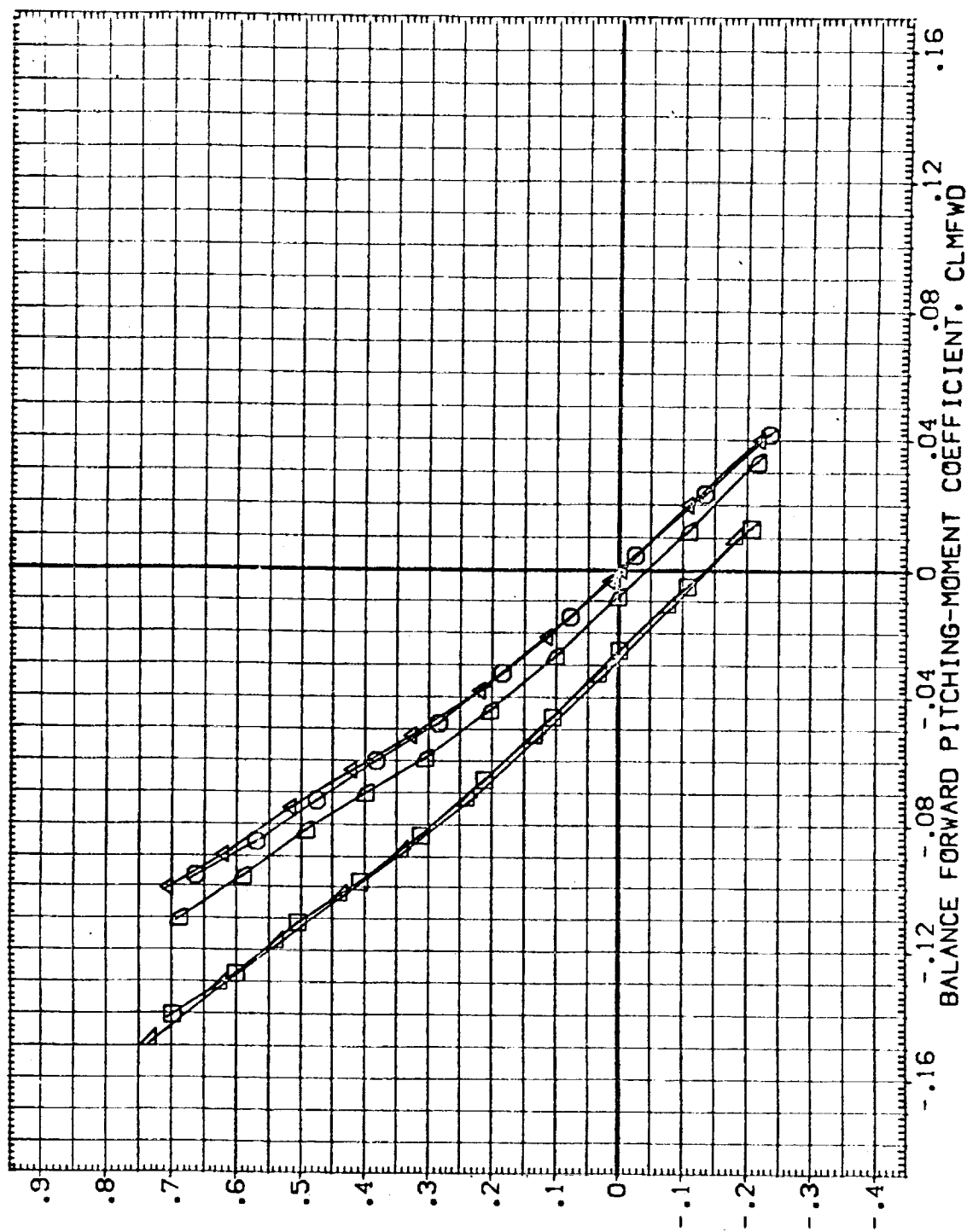


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = 1.50

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

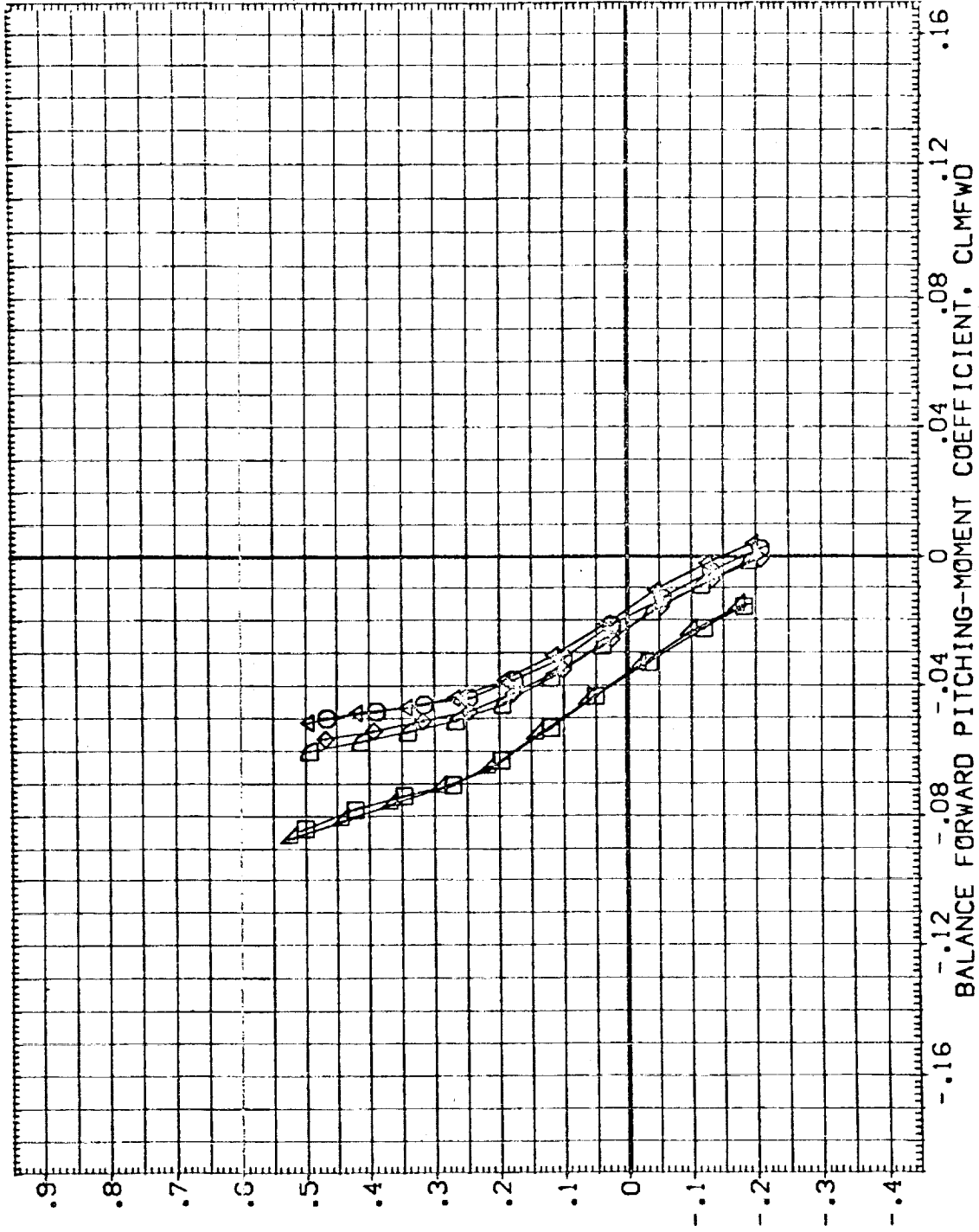


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

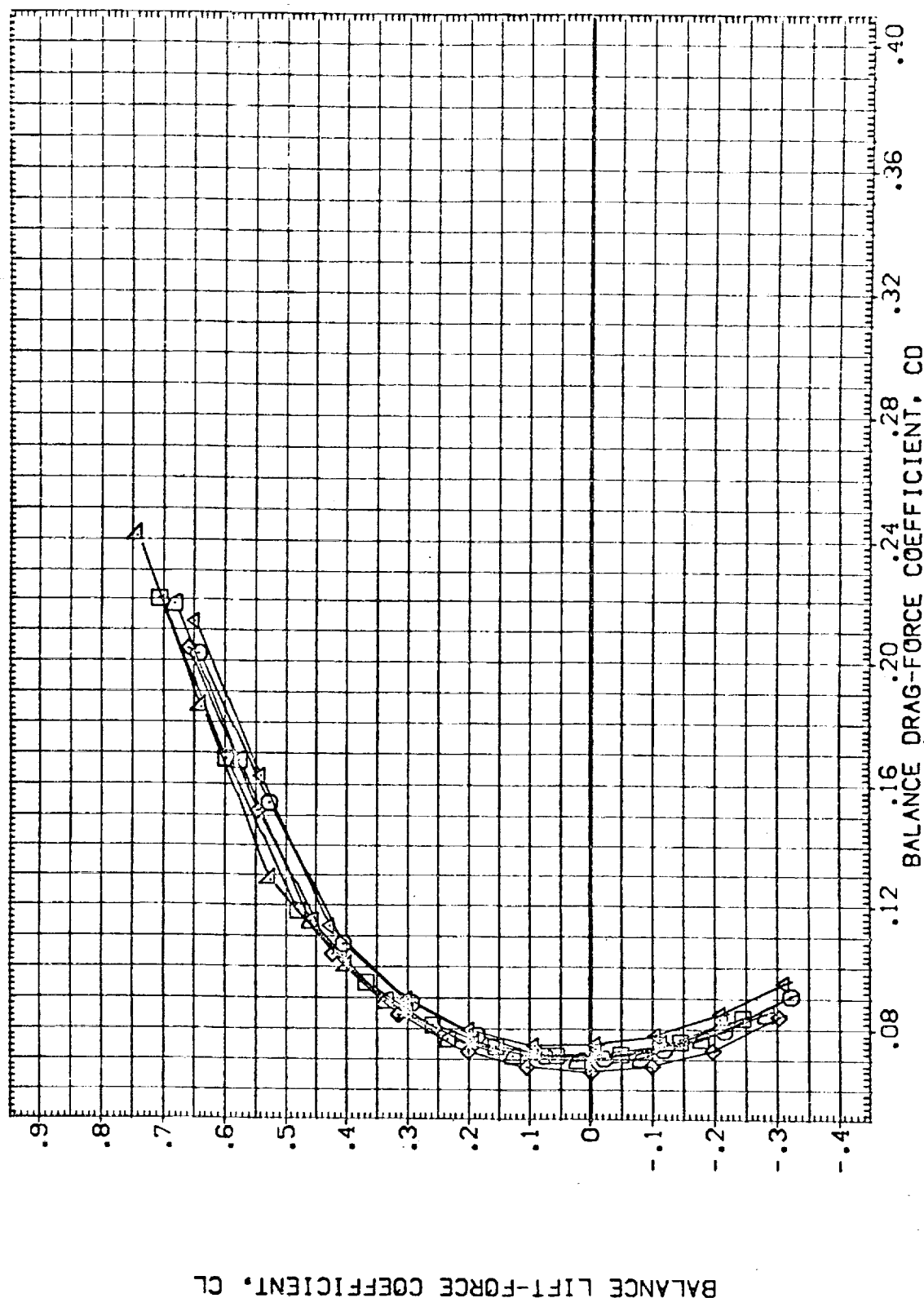


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING

(CER005) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING

(CER006) DATA NOT AVAILABLE

(CER012) ARC 66-709 0A59 0A11A-(RS V81+STRUT

(CER014) ARC 66-709 0A59 0A11A-(RS V81+STRUT

(CER015) ARC 66-709 0A59 0A11A-(RS V81+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF 6053 50.FT.

LREF 5935 FT.

BREF 1.1710 IN.

XMRP 12.6755 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

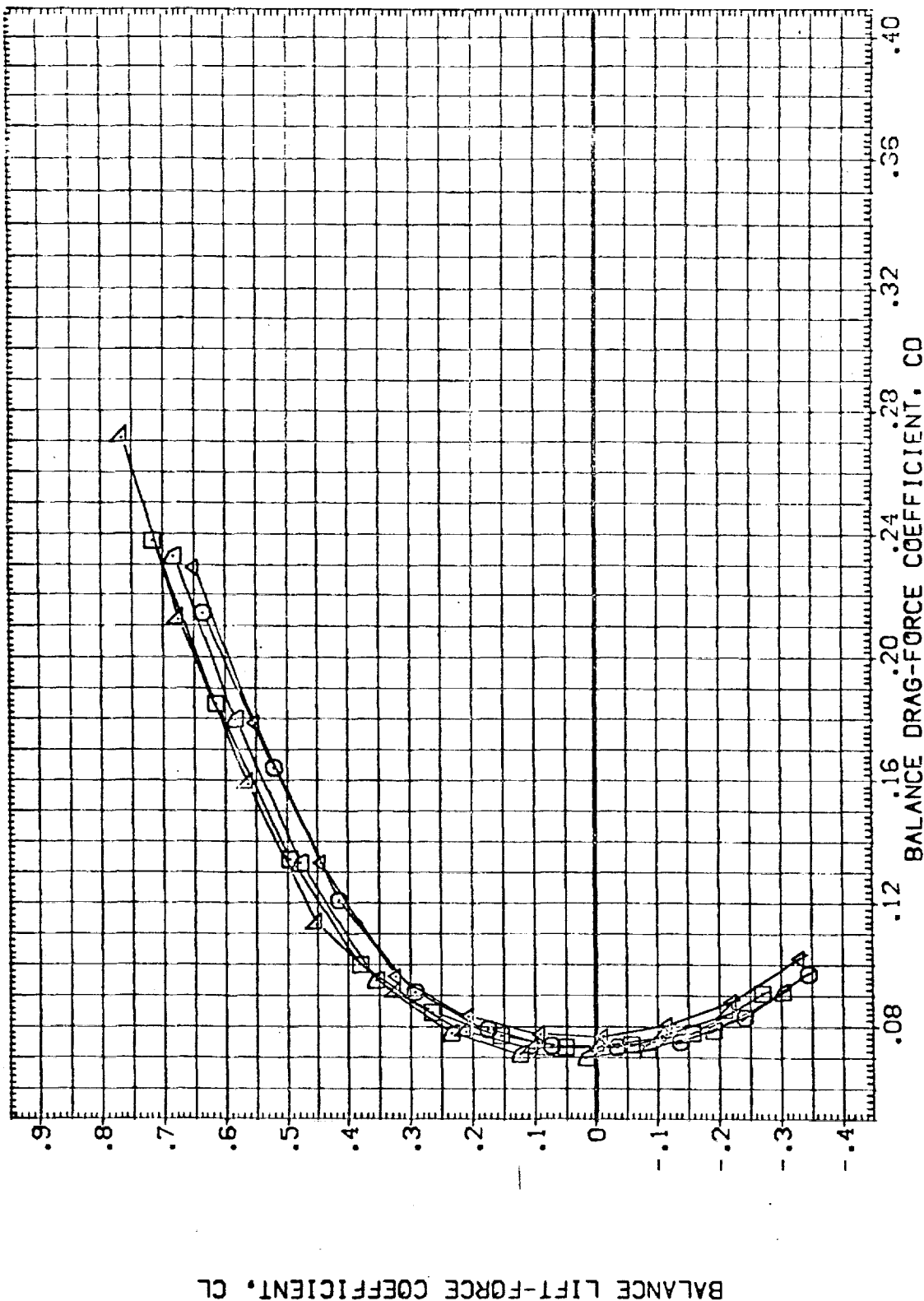


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER003)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

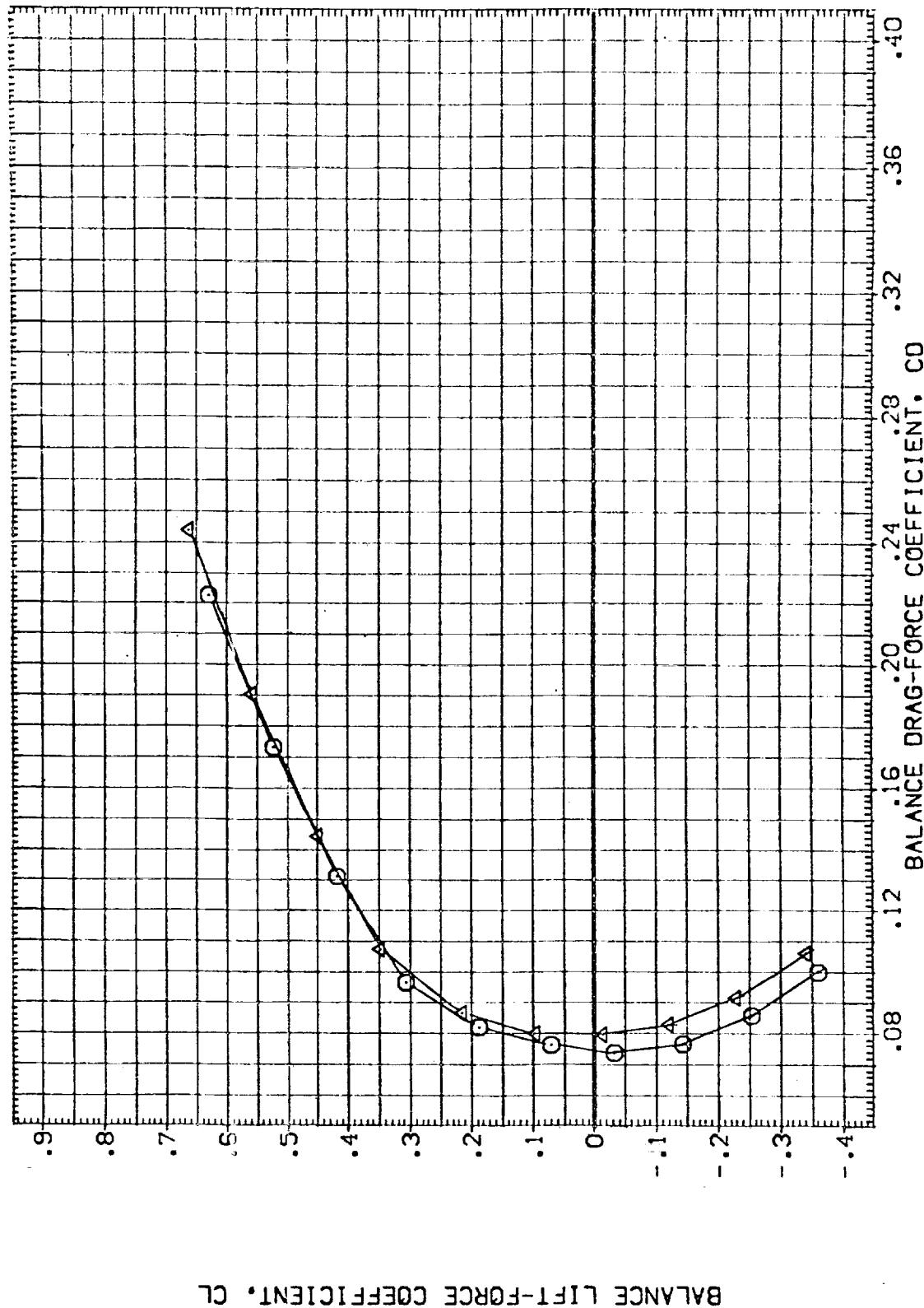


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50 FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

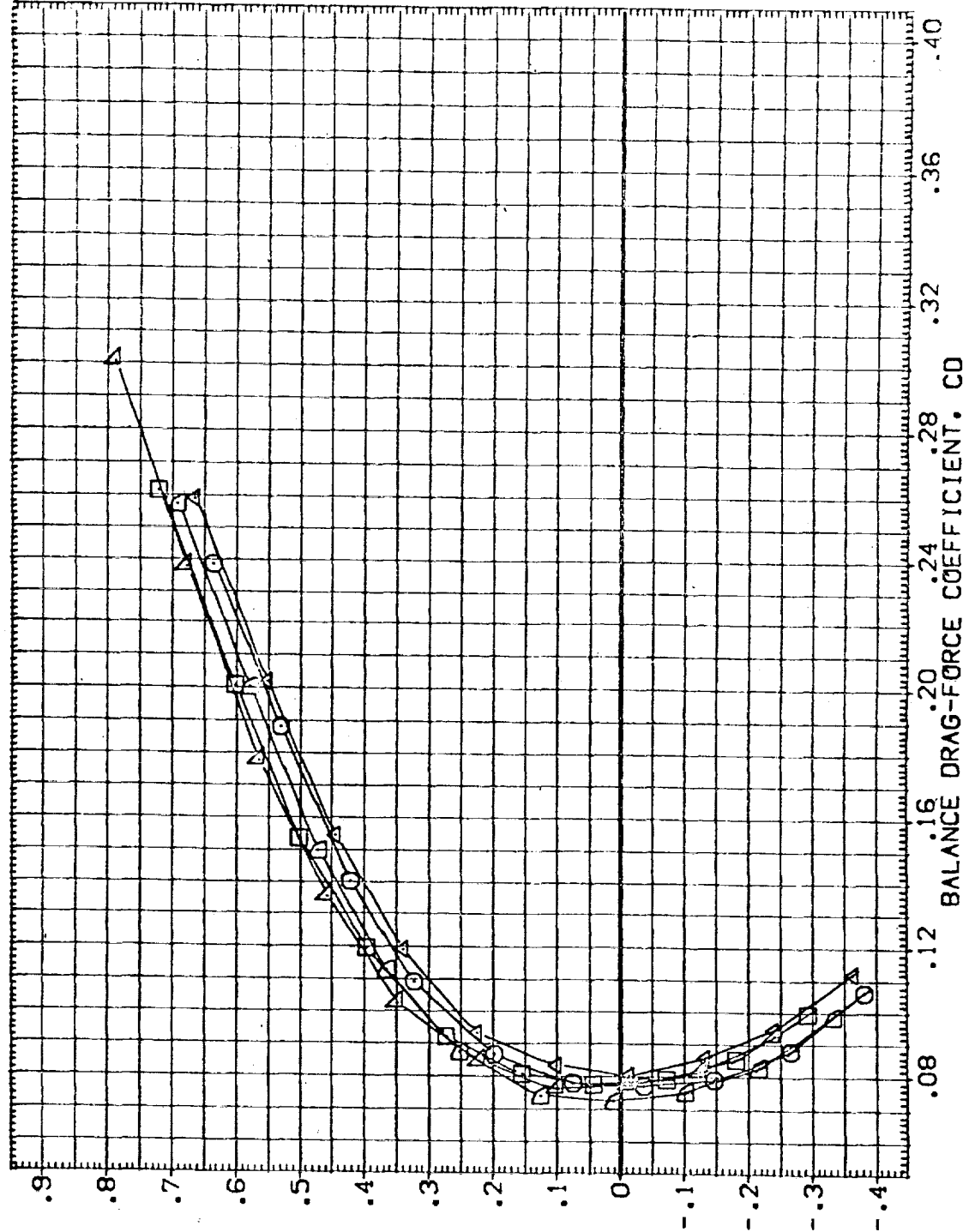


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80



REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000	80FLAP
	.000	-11.700
	.000	16.300
	.000	.000
	.000	-11.700
	.000	16.300
	.000	.000

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG
DATA NOT AVAILABLE
DATA NOT AVAILABLE
ARC 66-709 0A59 0A11A-(RS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

DATA SET SYMBOL

(CER001)
(CER005)
(CER006)
(CER012)
(CER014)
(CER015)

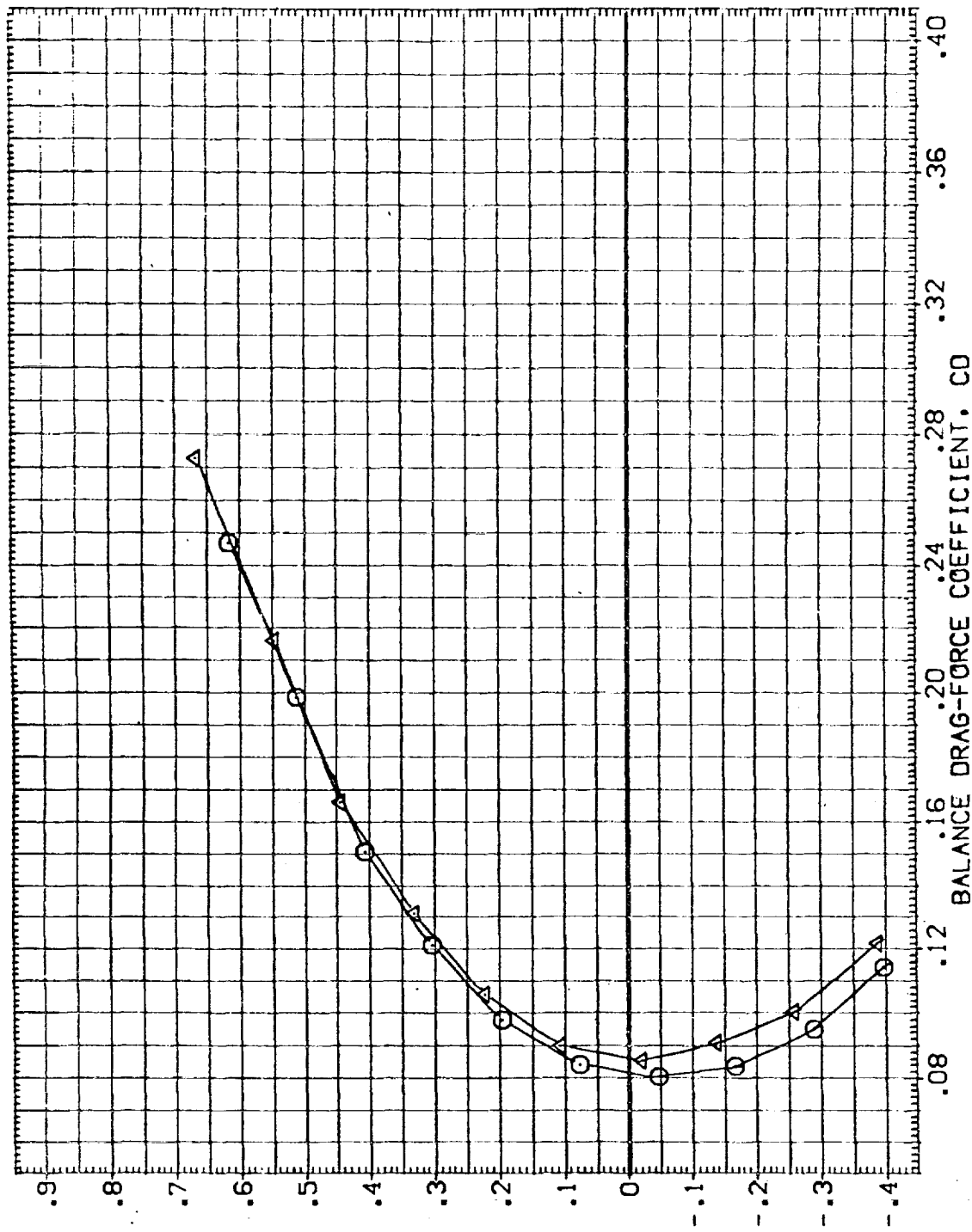


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

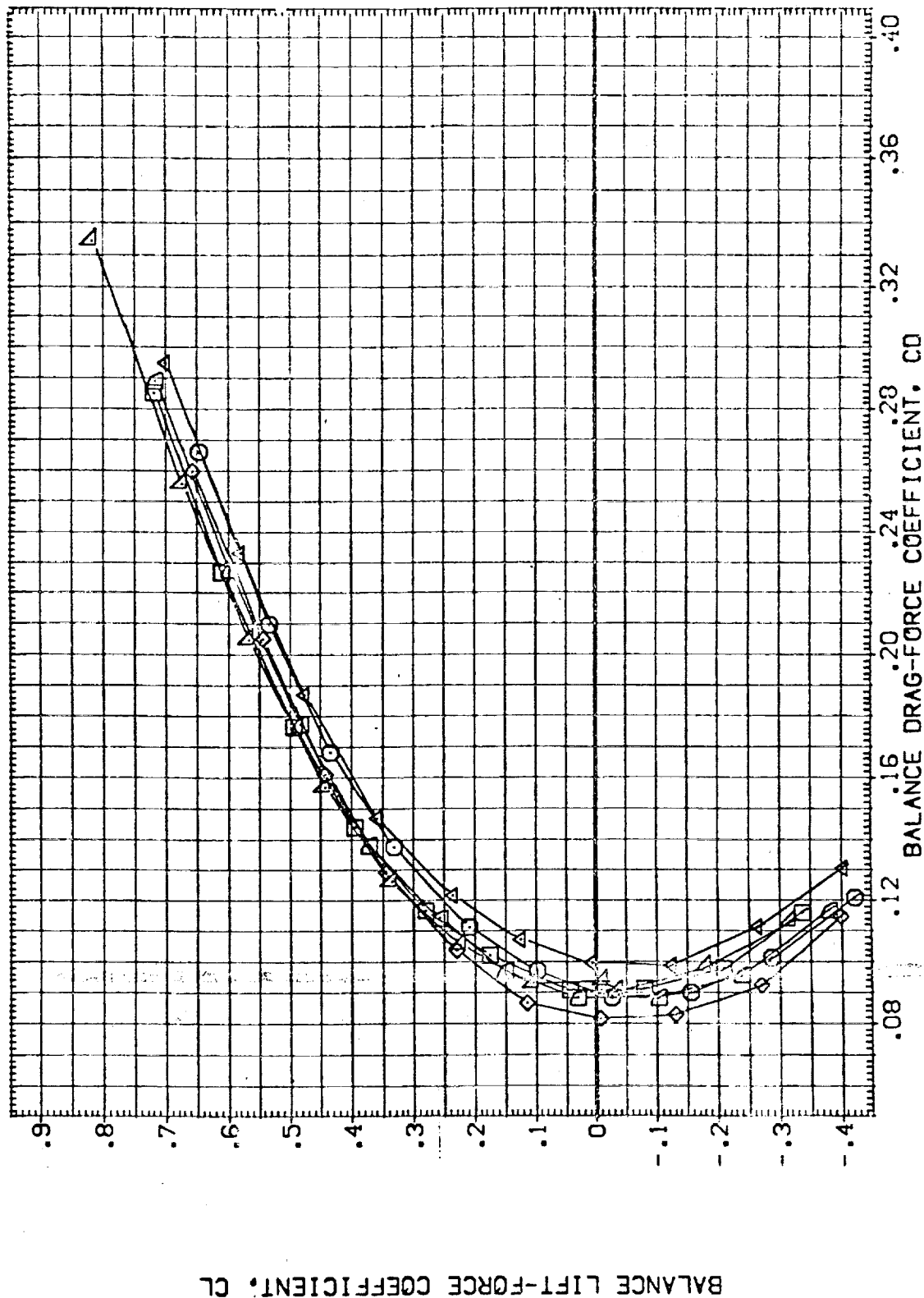


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F.)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

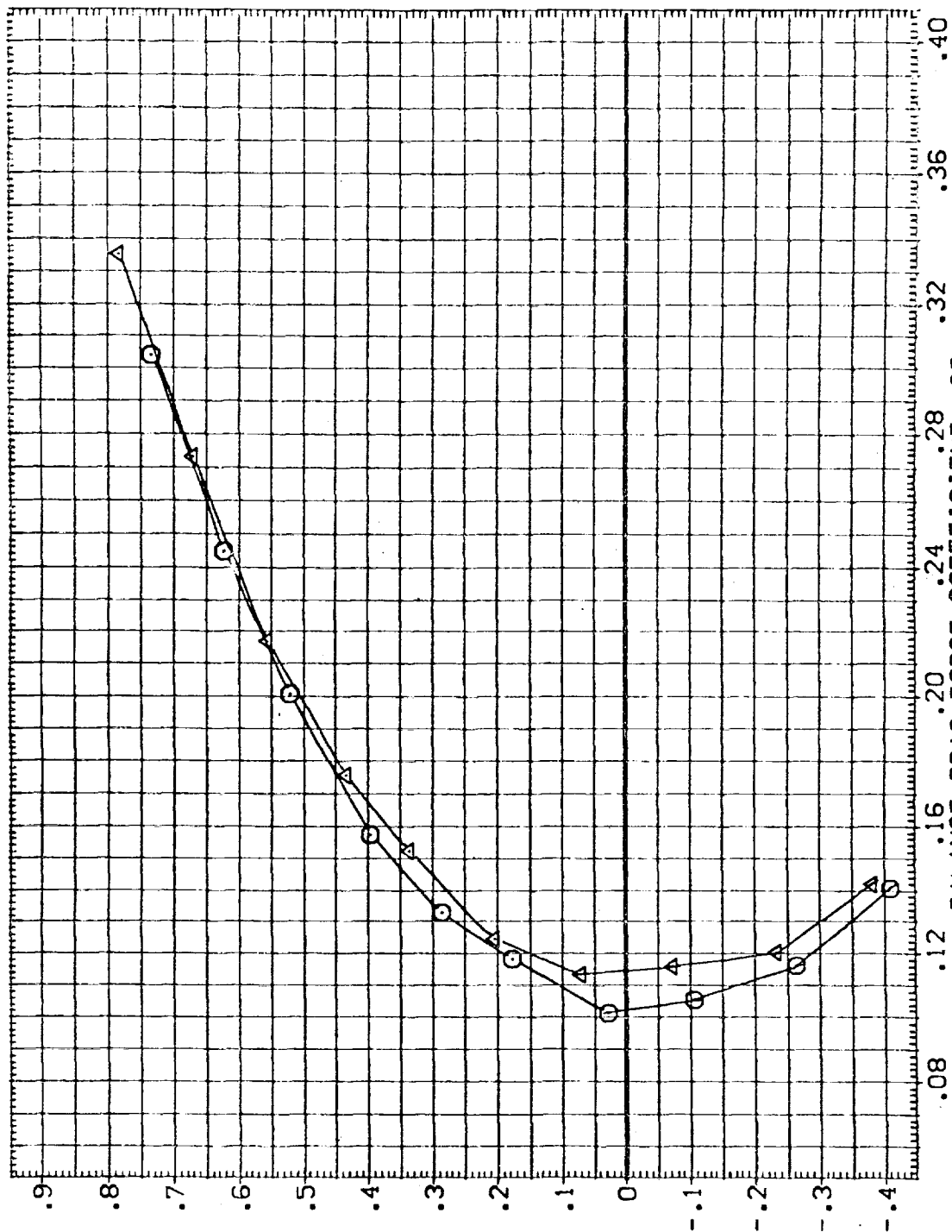


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

This graph shows the relationship between the angle of attack (in degrees) and the lift and drag coefficients for a 10% thick airfoil. The x-axis represents the angle of attack, ranging from 0 to 40 degrees. The y-axis represents the coefficients, ranging from -0.4 to 0.9. The lift coefficient (CL) is plotted with a solid line and open circles, while the drag coefficient (CD) is plotted with a dashed line and open squares. The lift coefficient increases linearly with angle of attack until approximately 16 degrees, after which it begins to decrease. The drag coefficient remains near zero until about 12 degrees, then increases sharply, reaching approximately 0.35 at 40 degrees.

Angle of Attack (Degrees)	Lift Coefficient (CL)	Drag Coefficient (CD)
0	0.00	0.00
4	0.10	0.00
8	0.20	0.00
12	0.30	0.00
16	0.40	0.00
20	0.50	0.05
24	0.60	0.10
28	0.70	0.15
32	0.80	0.20
36	0.90	0.25
40	0.35	0.35

$$\text{CHMACH} = 1.21$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	AMRP 12.6755 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

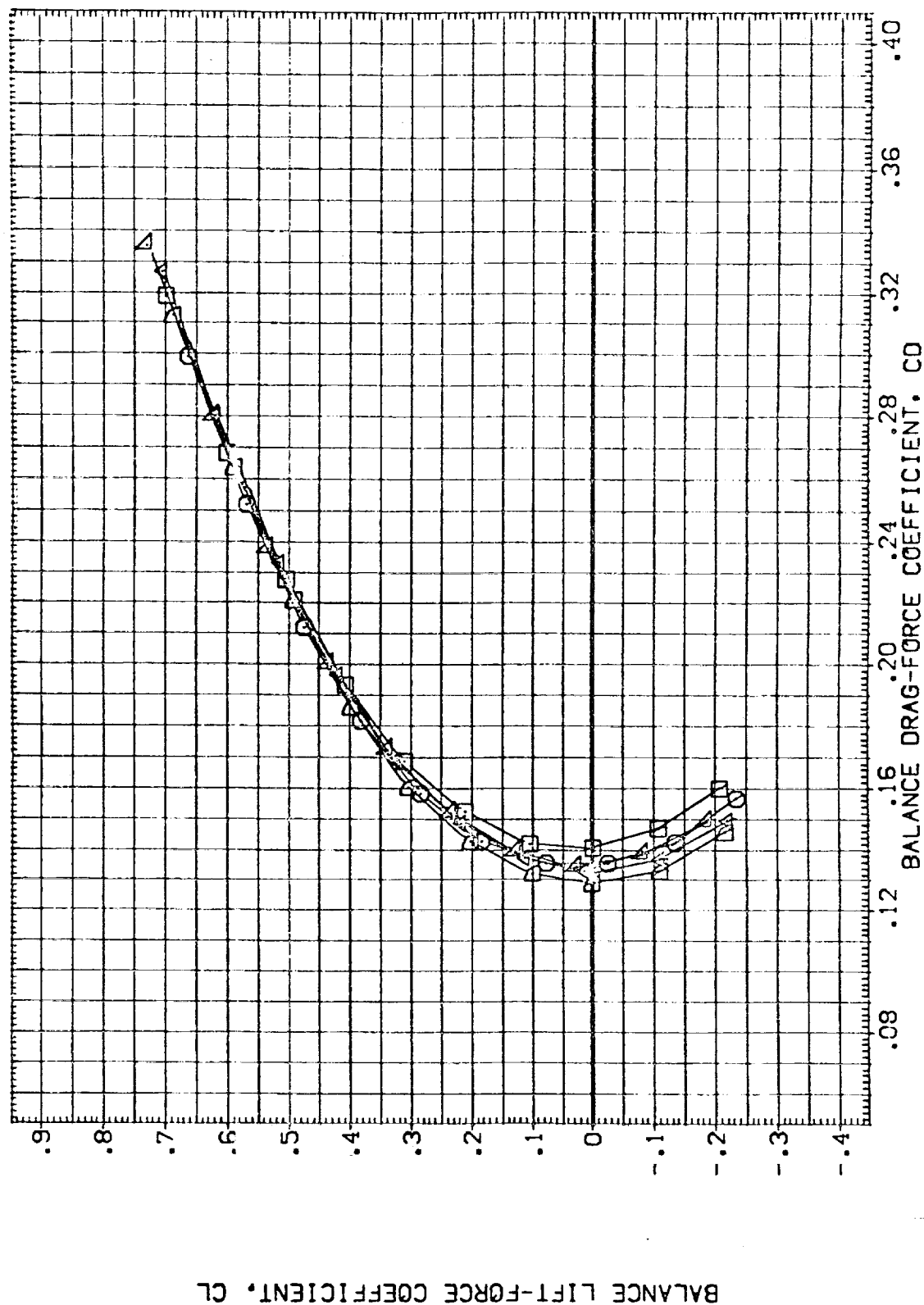


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(RS	V81+STRUT		
ARC 66-709	DA59	DA11A-(RS	V81+STRUT		
ARC 66-709	DA59	DA11A-(RS	V81+STRUT		

DATA SET SYMBOL

{CER001}	
{CER005}	
{CER006}	
{CER012}	
{CER014}	
{CER015}	

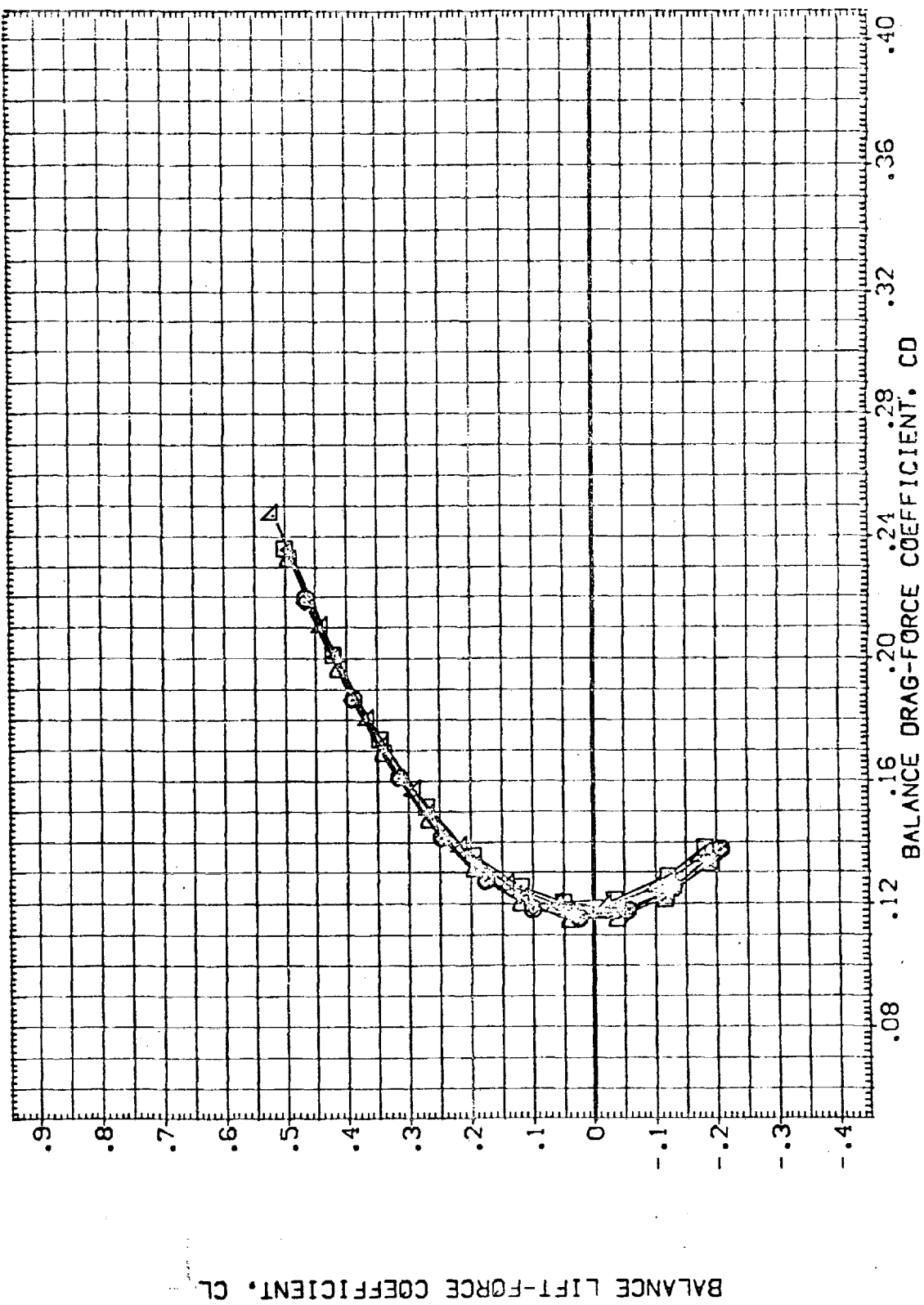
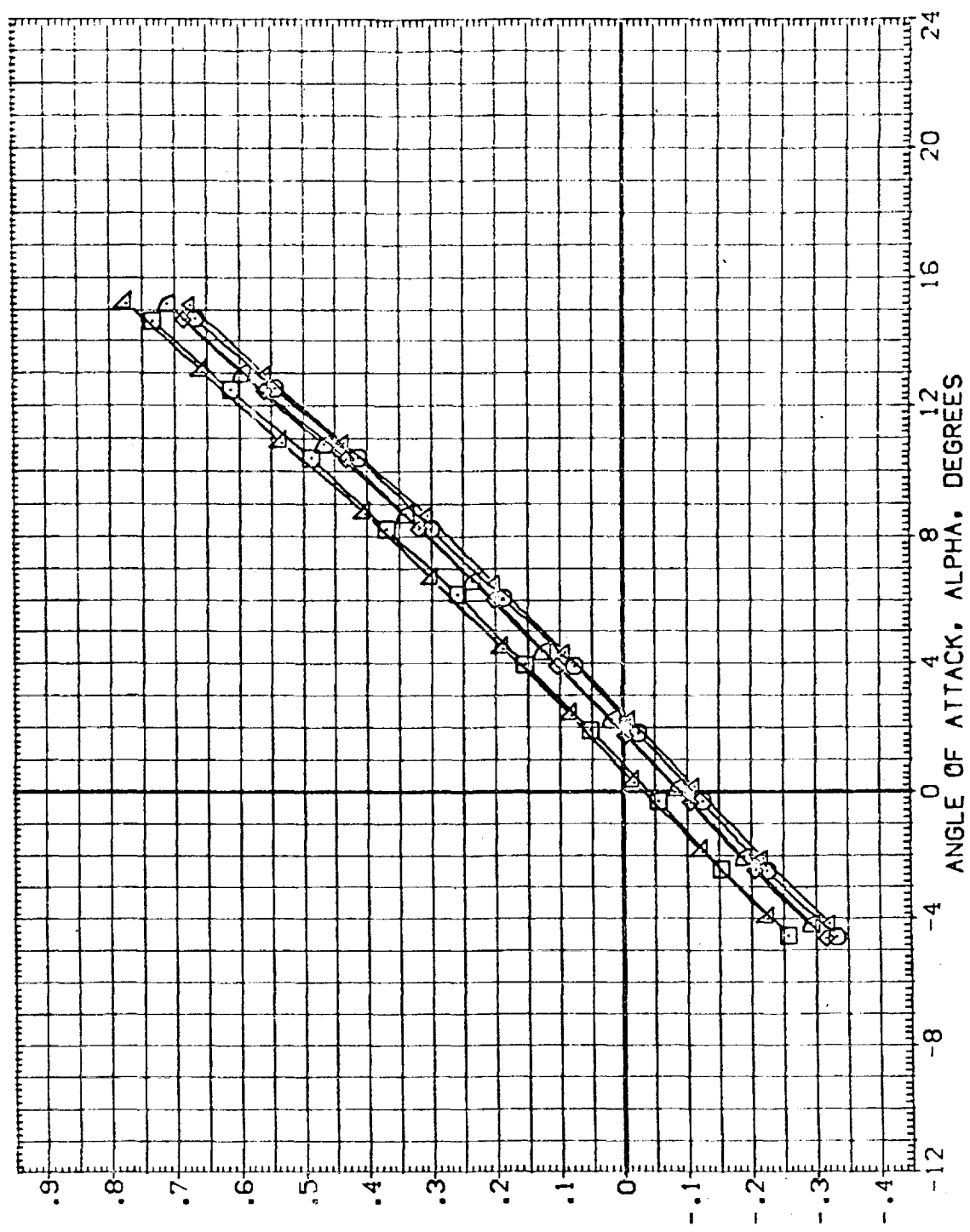


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(JMMACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5335 FT.
(GER006)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CnT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

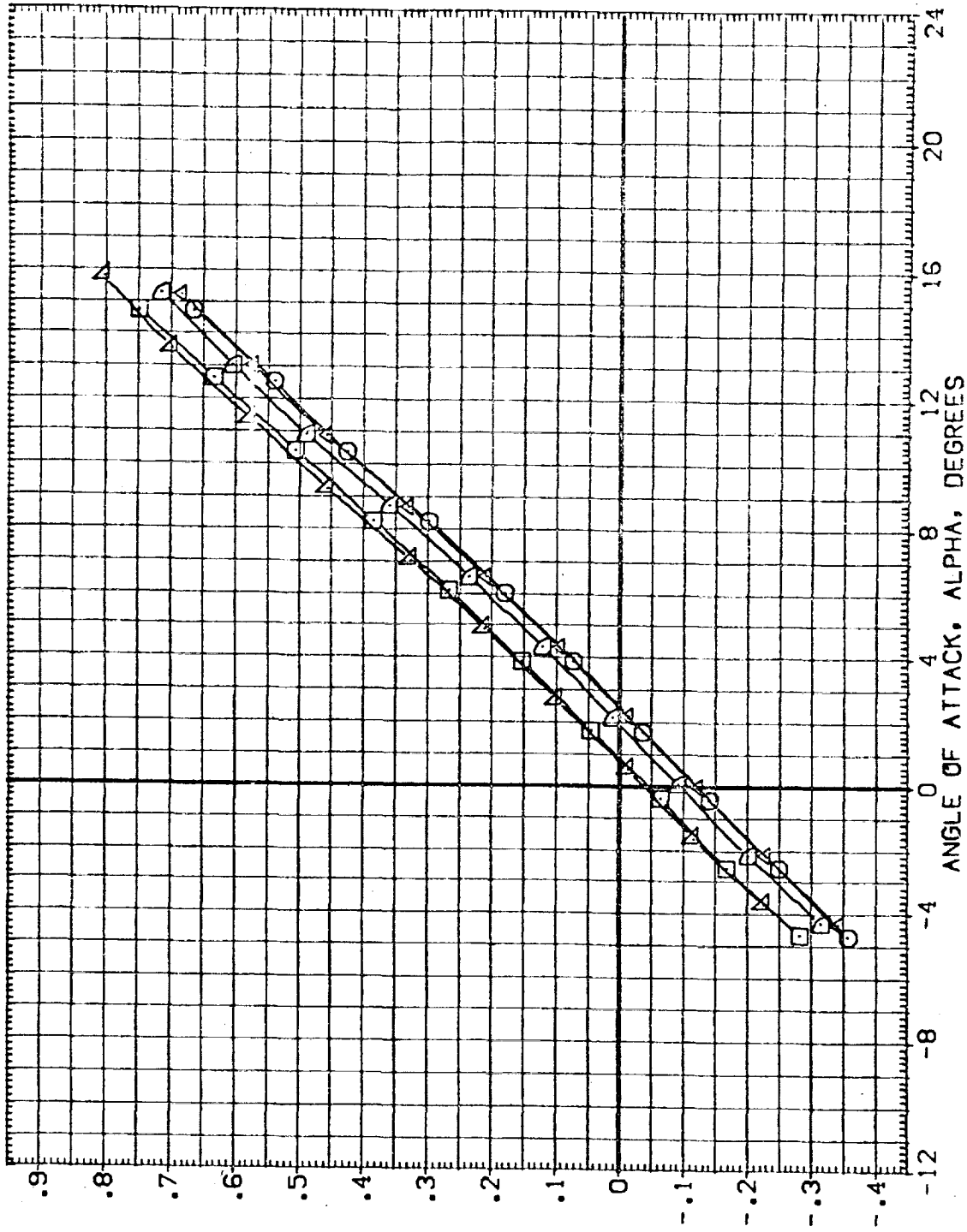


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 50. FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

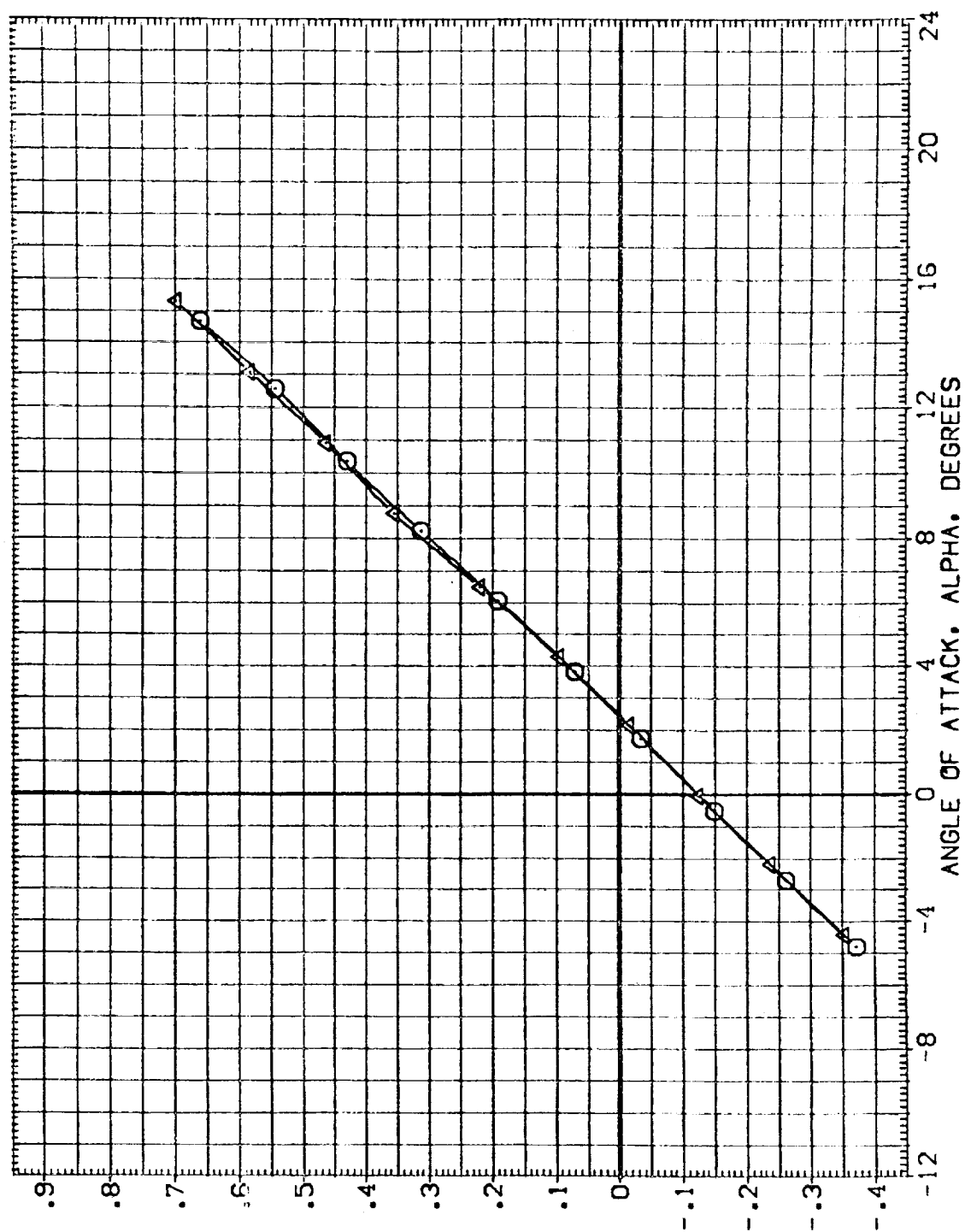


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL

(GER001) □

(GER005) ○

(GER006) △

(GER012) ◇

(GER014) ×

(GER015) ▲

CONFIGURATION DESCRIPTION

ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG

ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG

DATA NOT AVAILABLE

ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA

.000

.000

.000

.000

.000

.000

ELEVON

.000

.000

.000

.000

.000

.000

BOFLAP

-11.700

16.300

.000

-11.700

16.300

.000

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

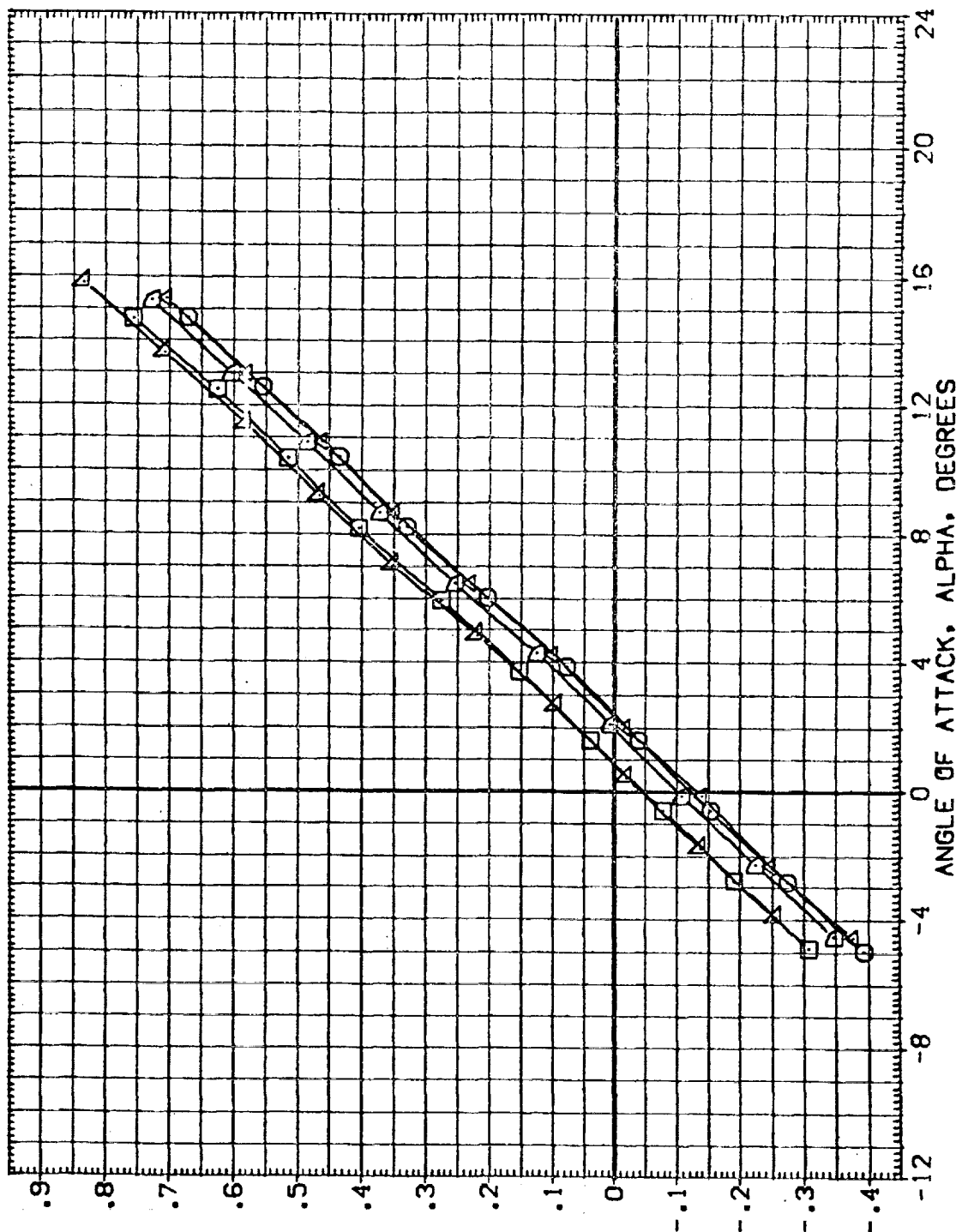
BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CNI

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SO.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	.000	16.300	YMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE .0150

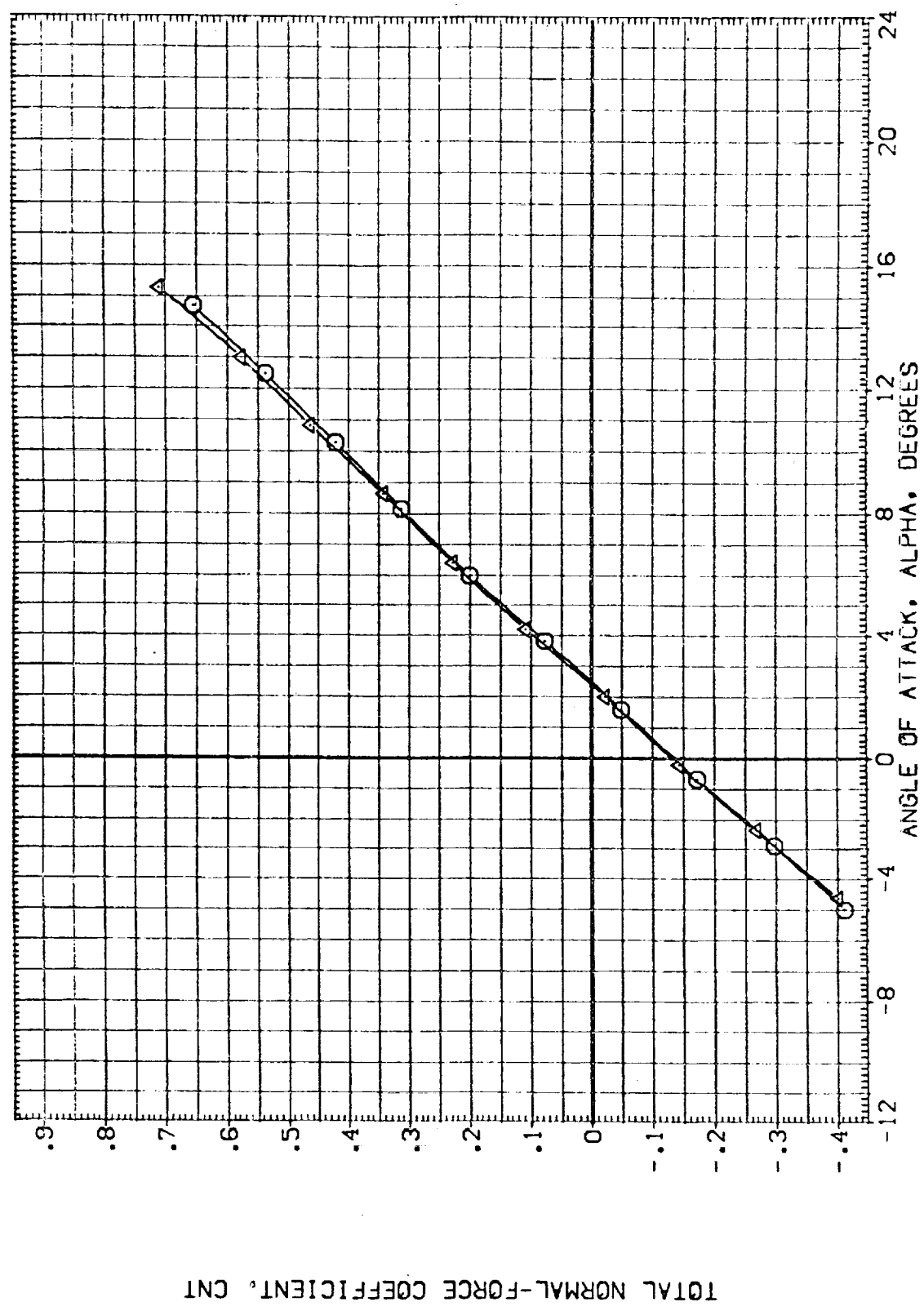


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	XMRP 12.6555 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	SCALE .0150

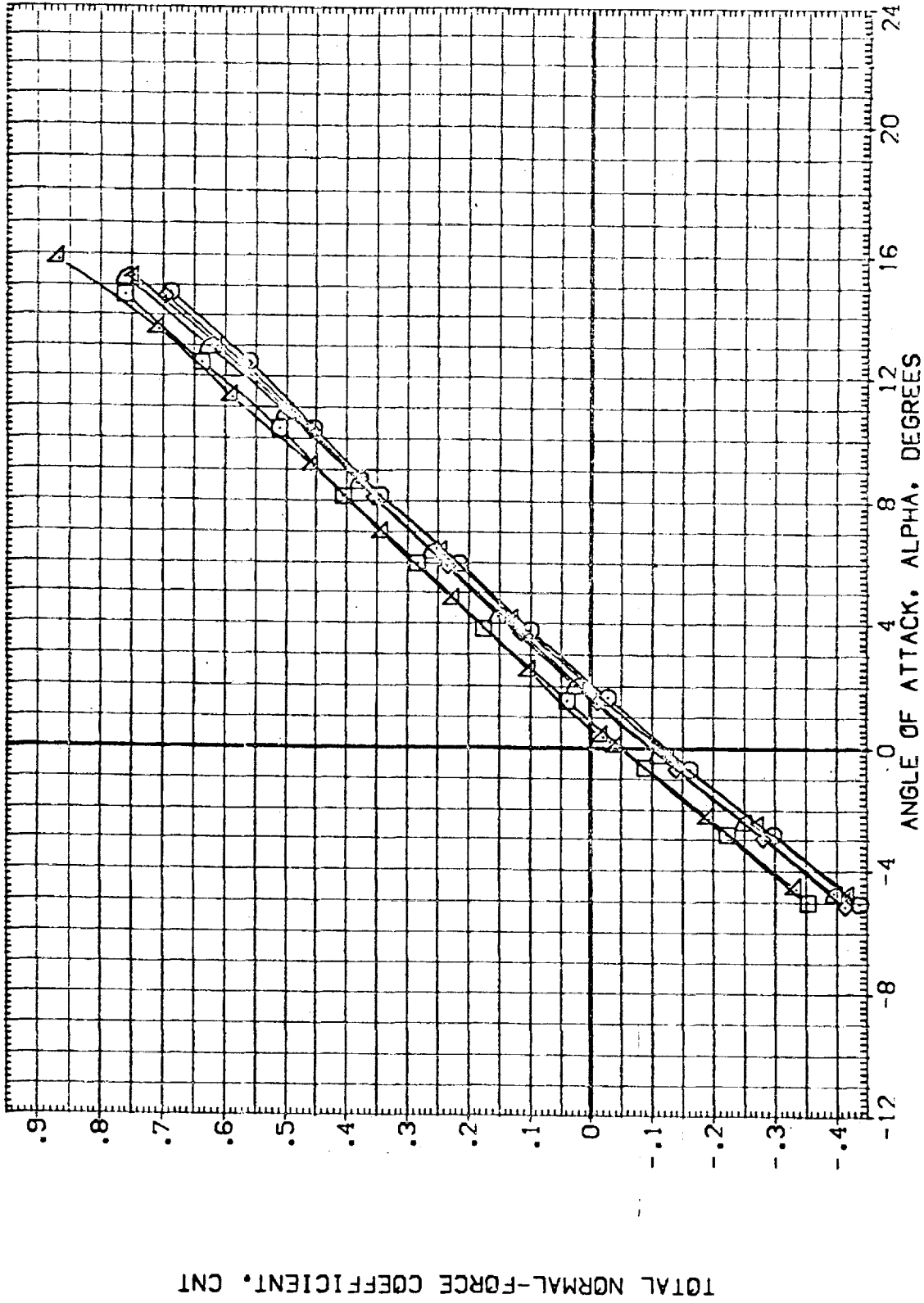
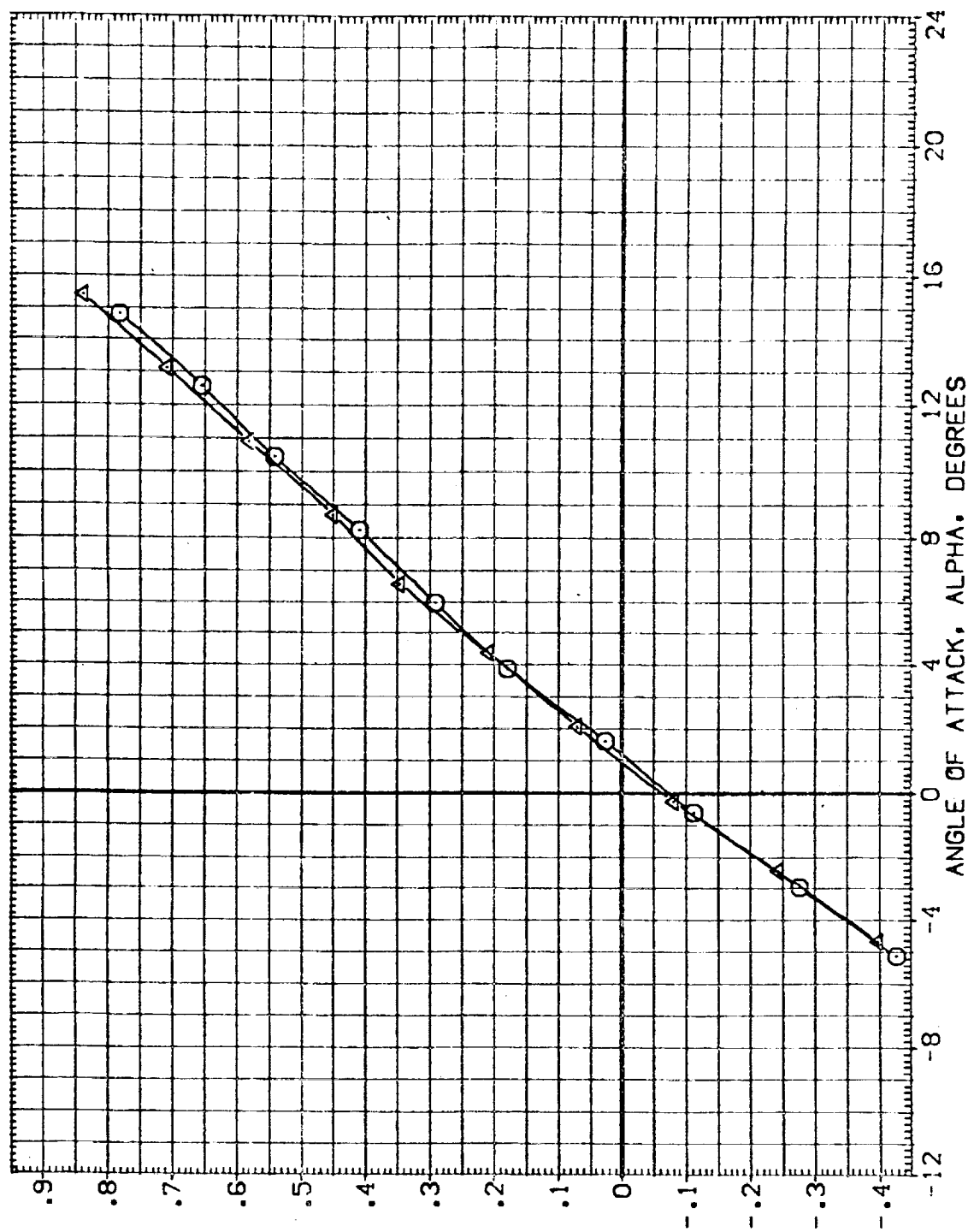


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0459 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0459 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CnT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

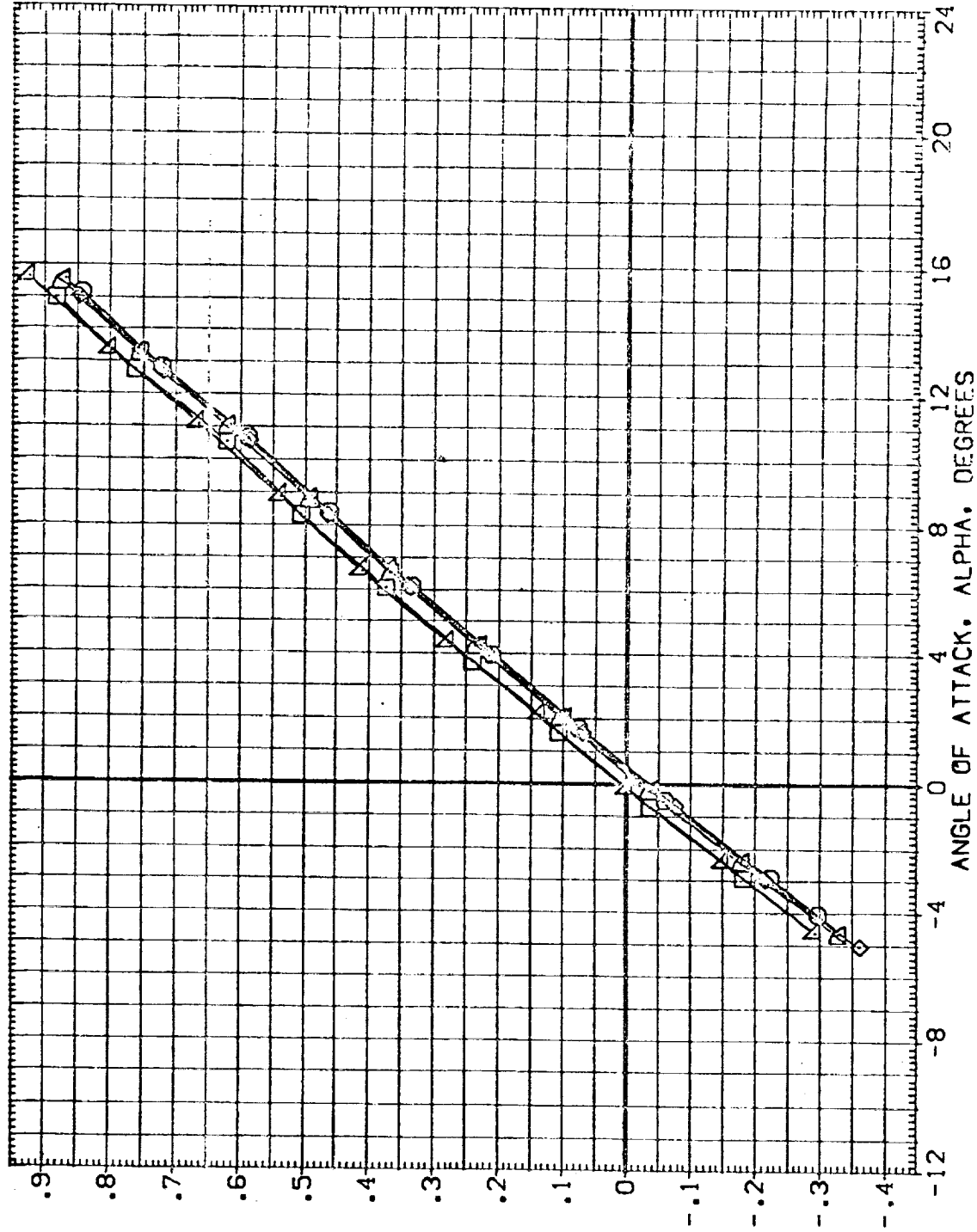


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

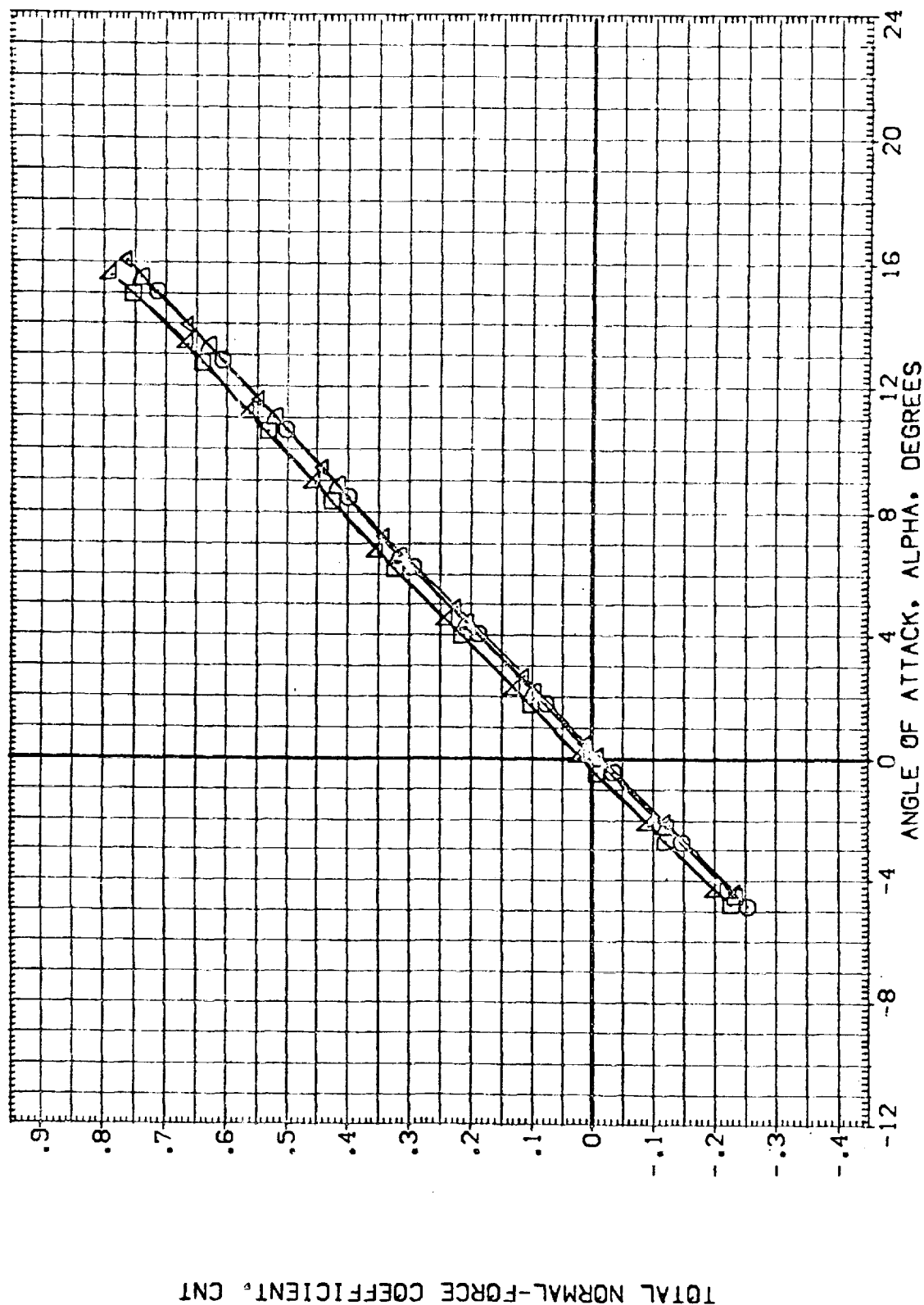


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	.000
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	DA59	DA11A-(N24	R5	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(N24	R5	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(N24	R5	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(R5	V81+STRUT		
ARC 66-709	DA59	DA11A-(R5	V81+STRUT		
ARC 66-709	DA59	DA11A-(R5	V81+STRUT		

DATA SET SYMBOL

(GER001)	□
(GER005)	○
(GER006)	×
(GER012)	△
(GER014)	◇
(GER015)	▽

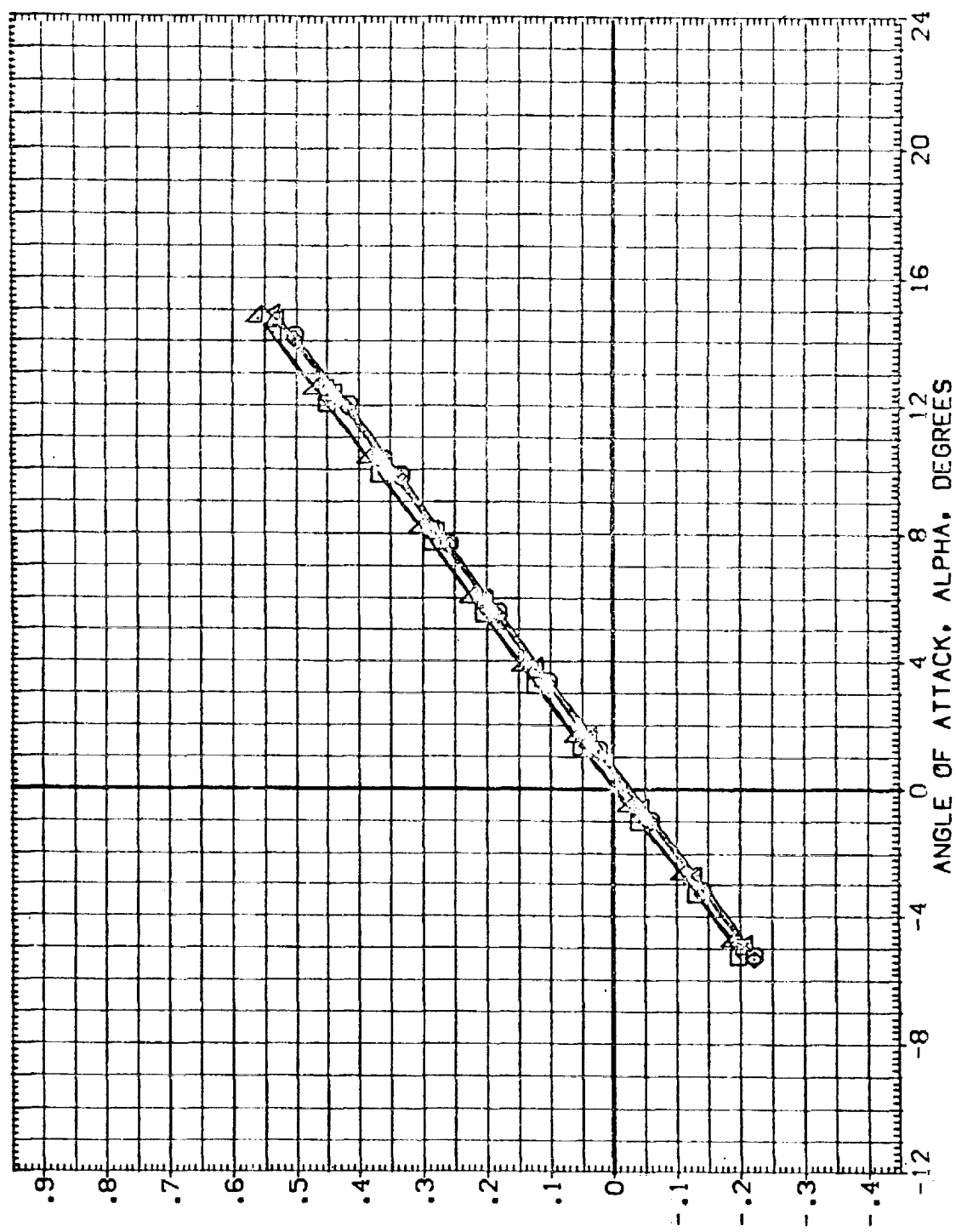


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

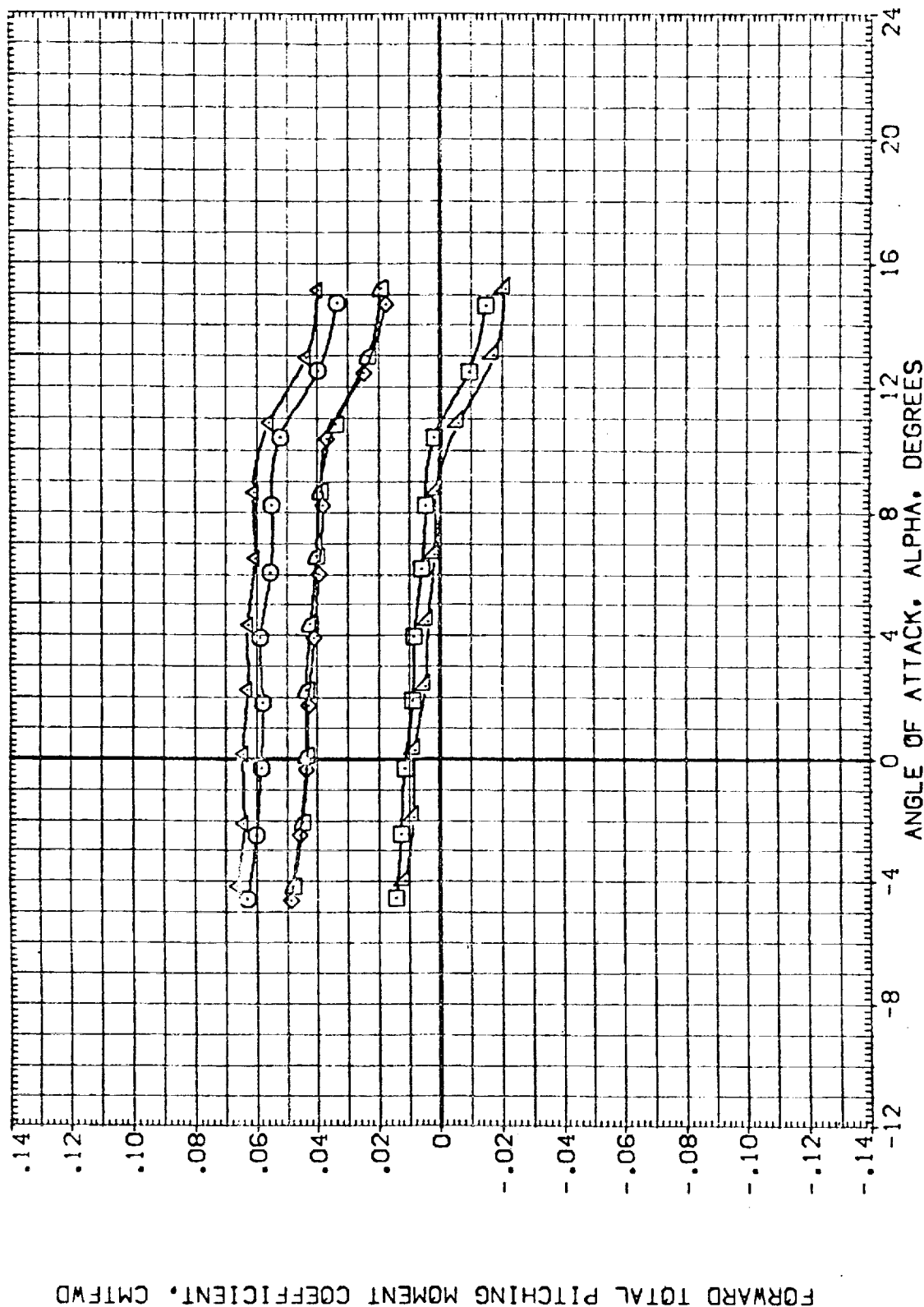
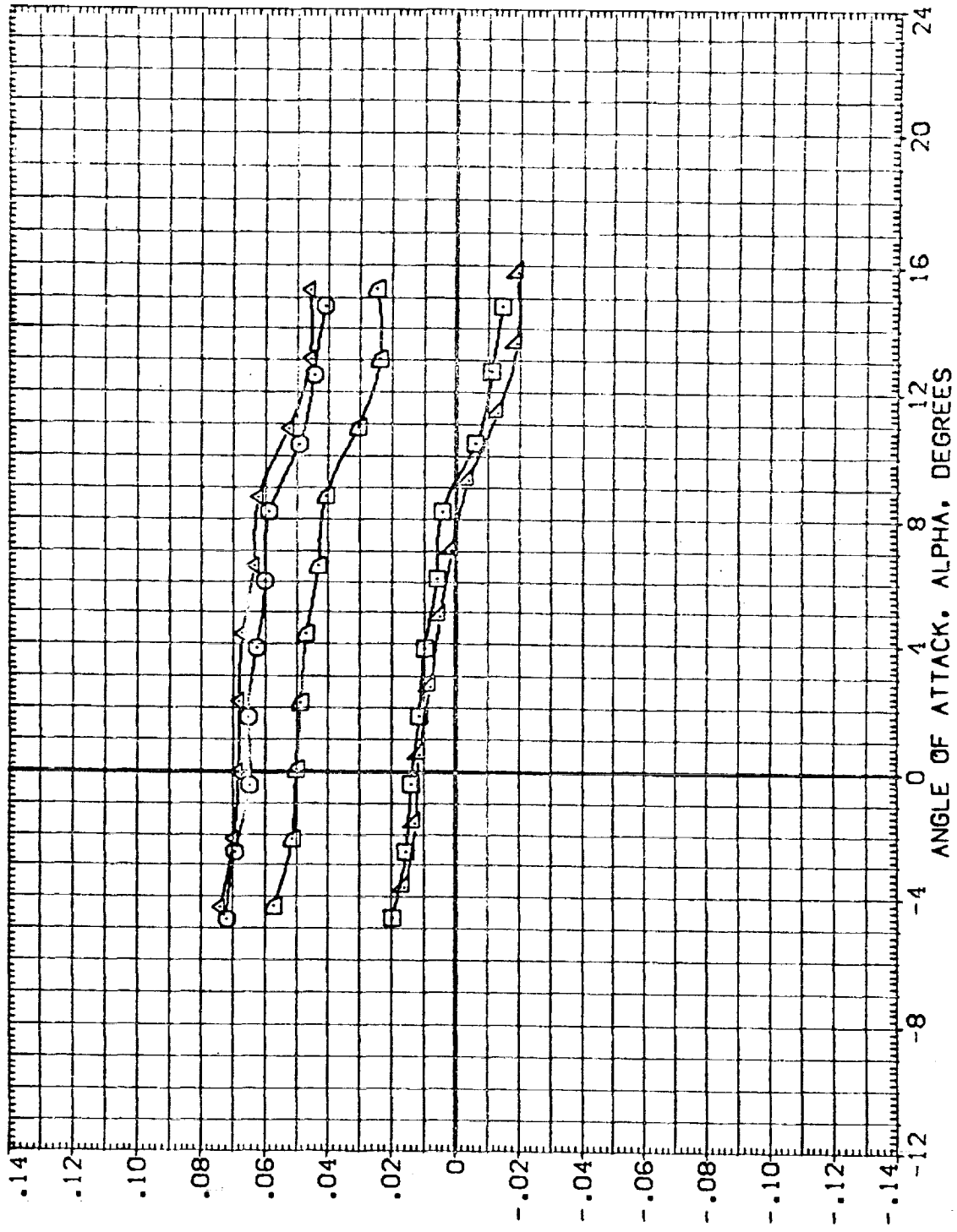


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEV/DN	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFW

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE .0150

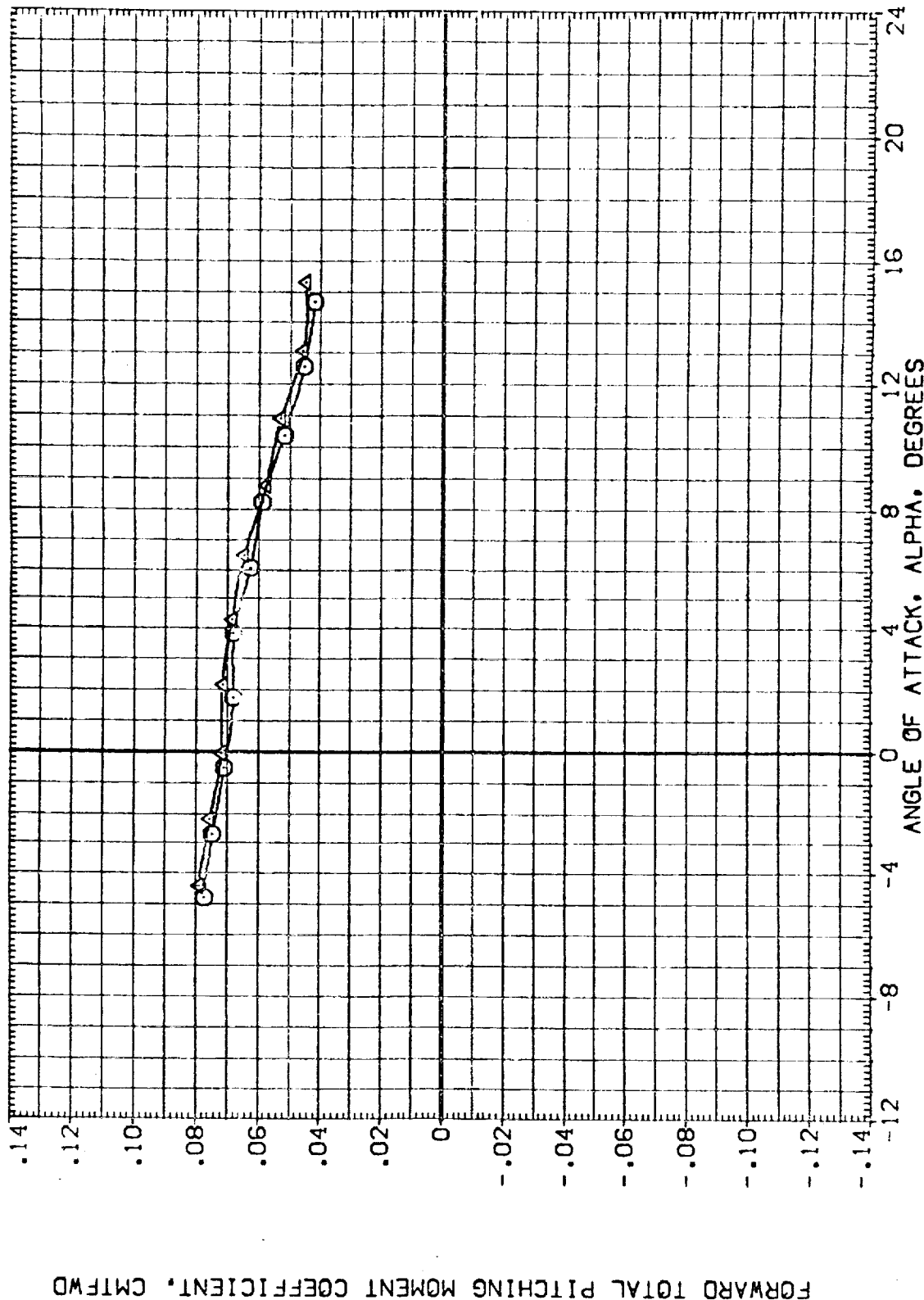


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

(GER005) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

(GER006) DATA NOT AVAILABLE

(GER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(GER014) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(GER015) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

BETA .000

ELEV/DN .000

BOFLAP .000

BOFLAP -11.700

BOFLAP 16.300

BOFLAP .000

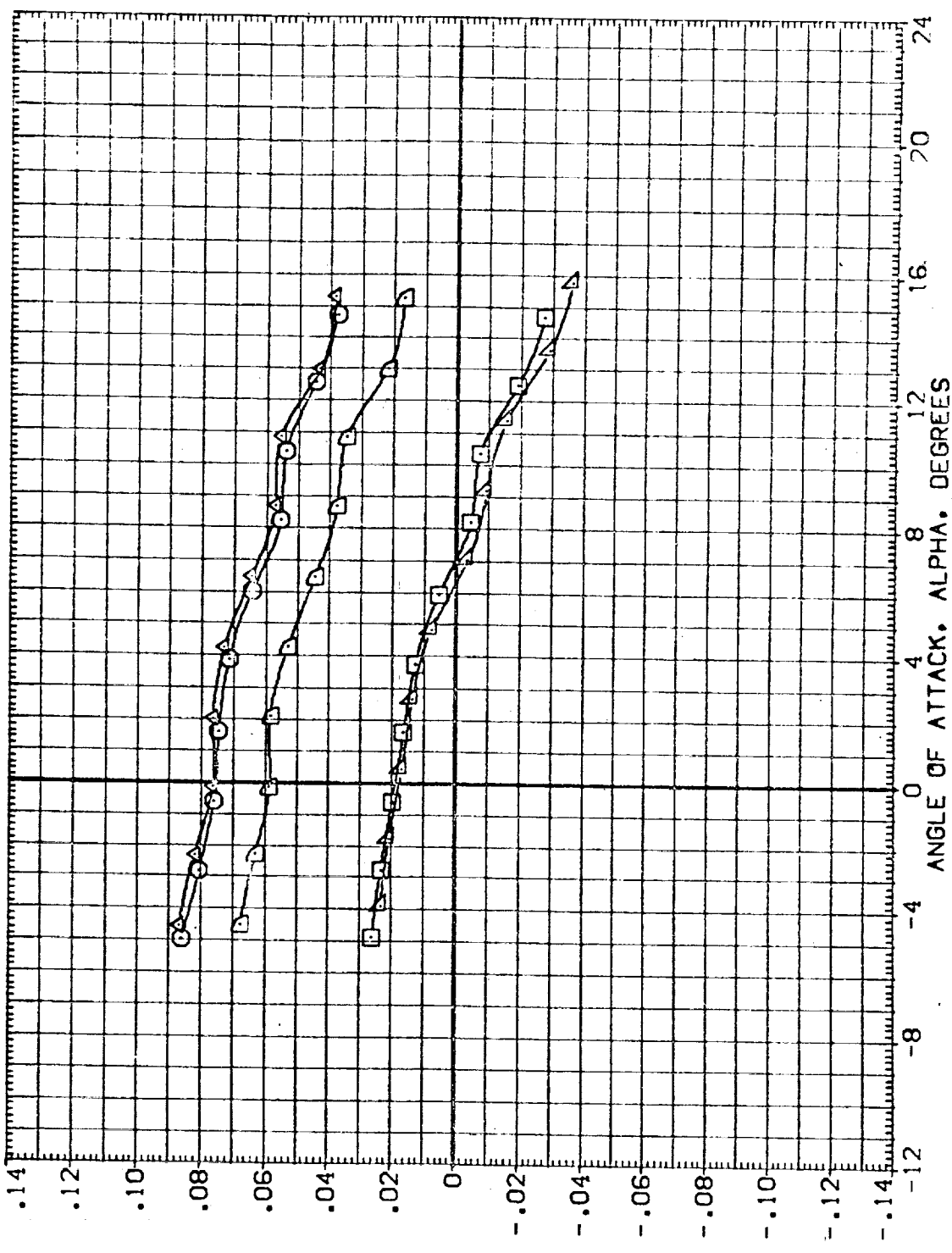
BOFLAP -11.700

BOFLAP 16.300

BOFLAP .000

BOFLAP -11.700

BOFLAP 16.300



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

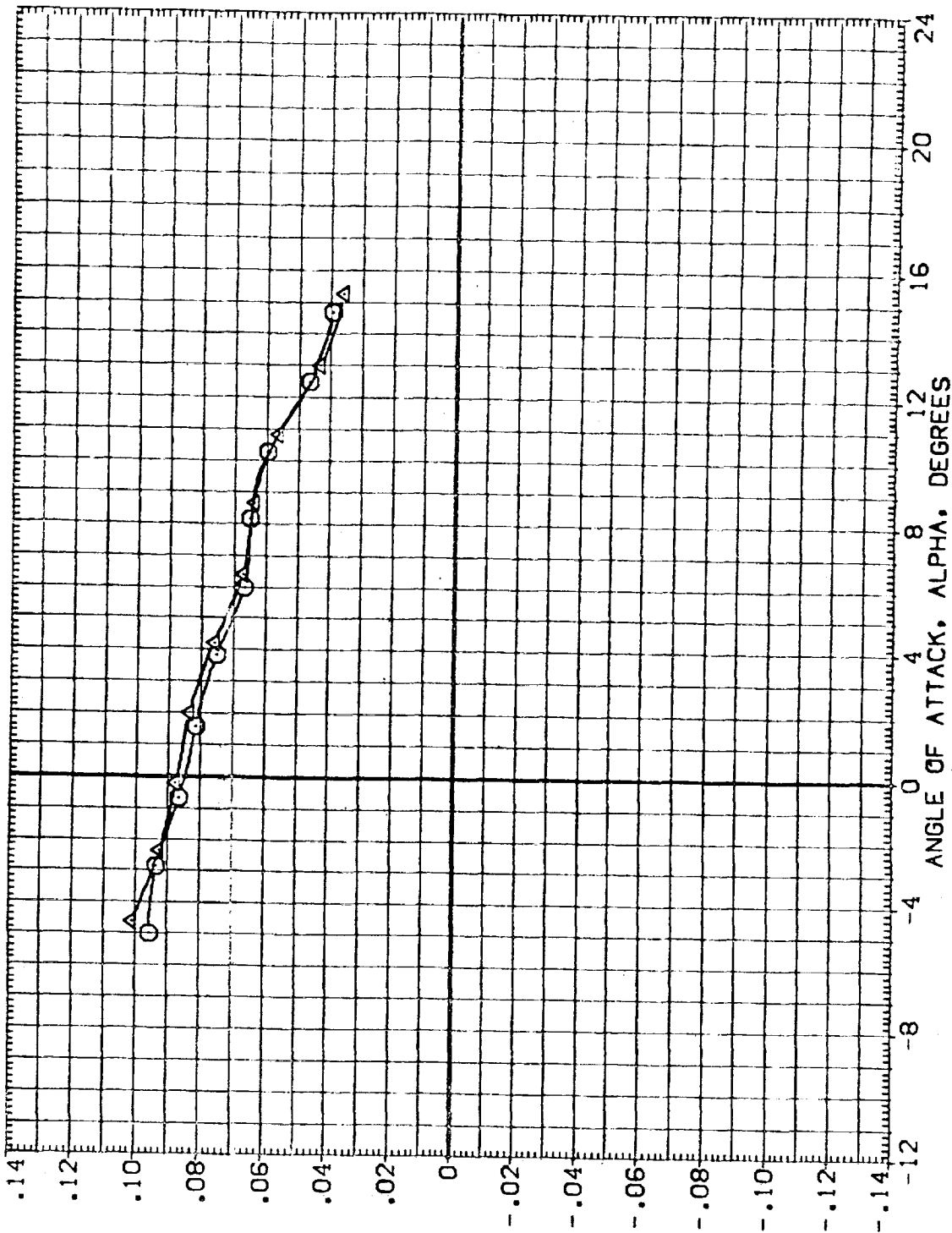


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

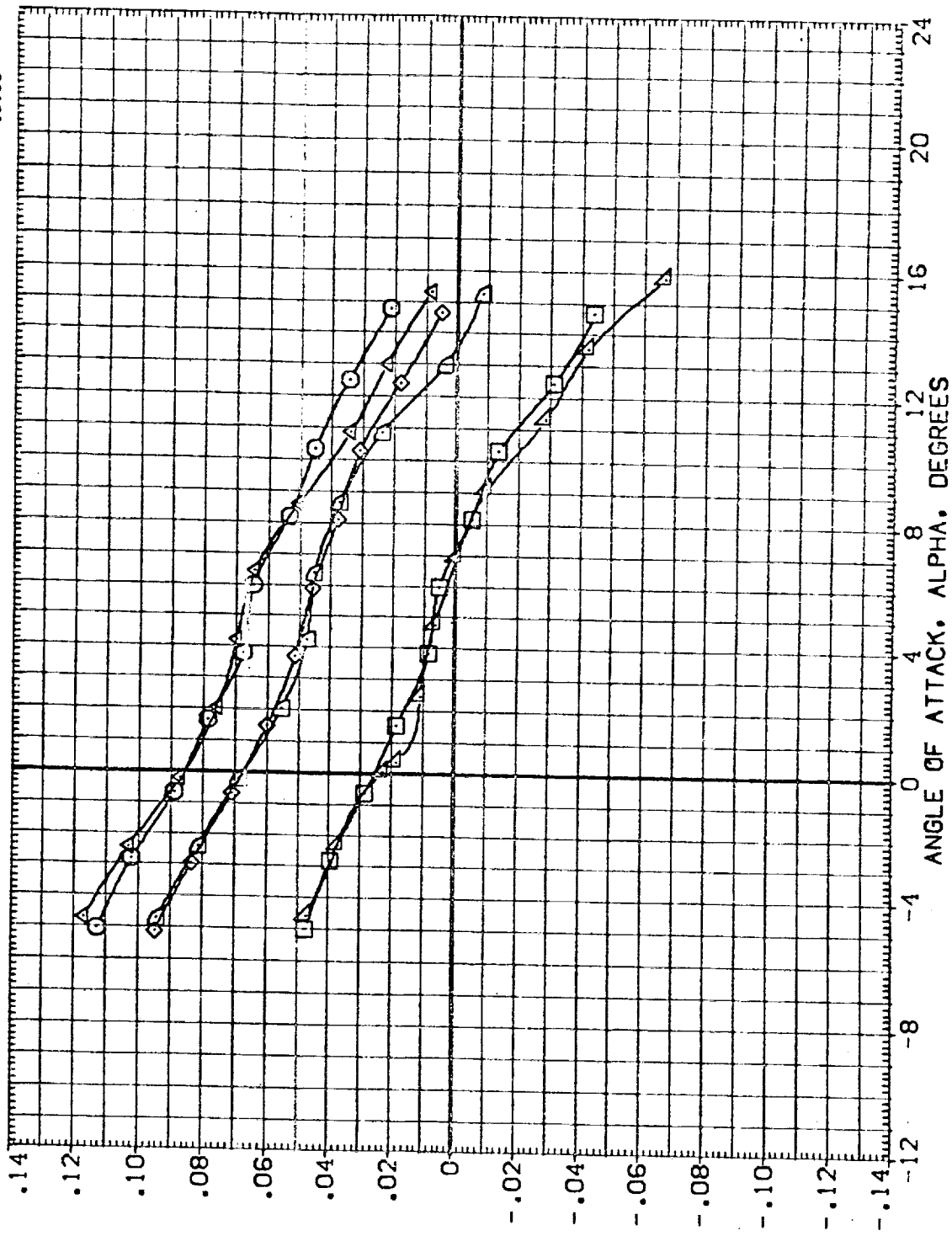
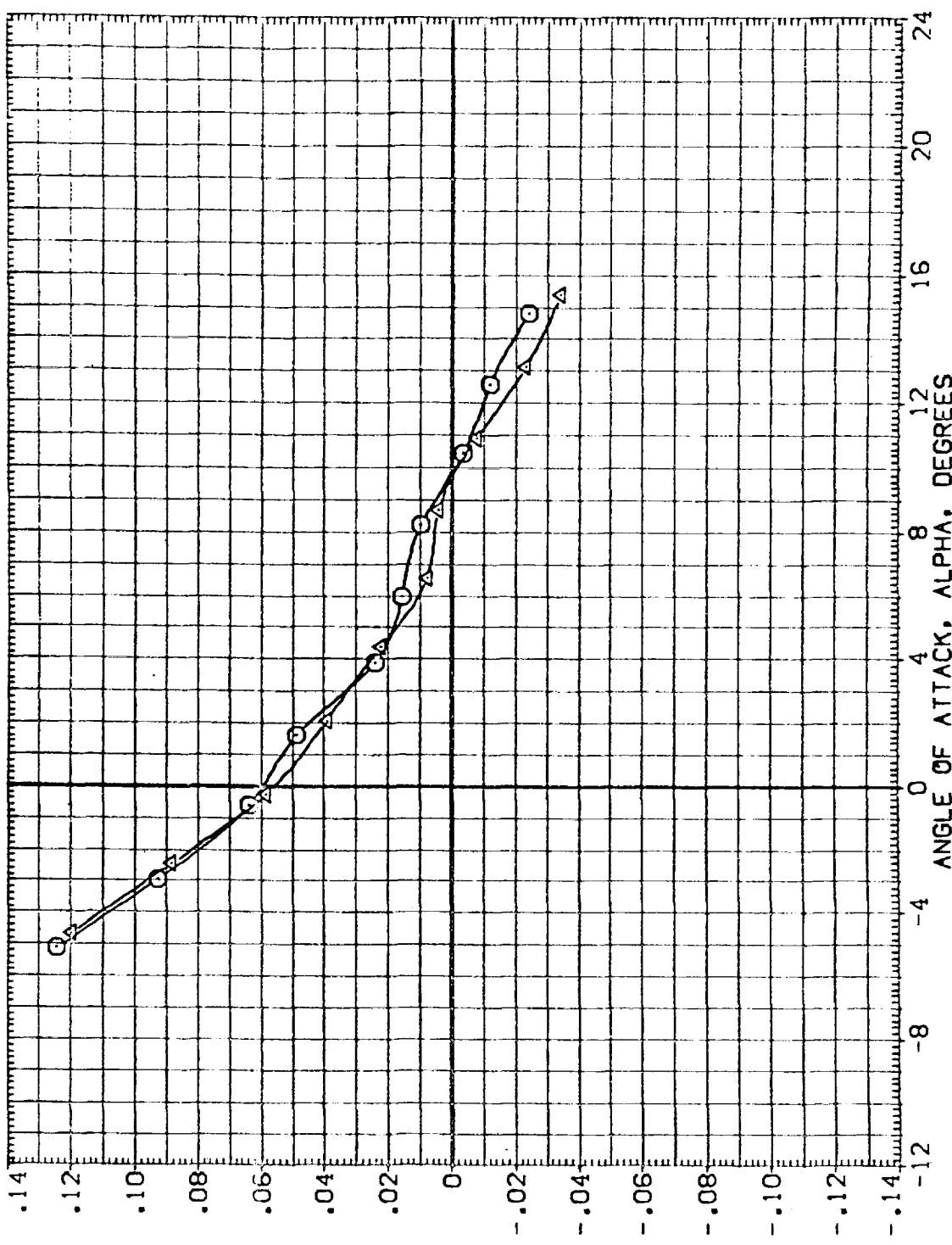


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT+OUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTWD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 [GER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 [GER005] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 [GER006] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 [GER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 [GER014] ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 [GER015] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

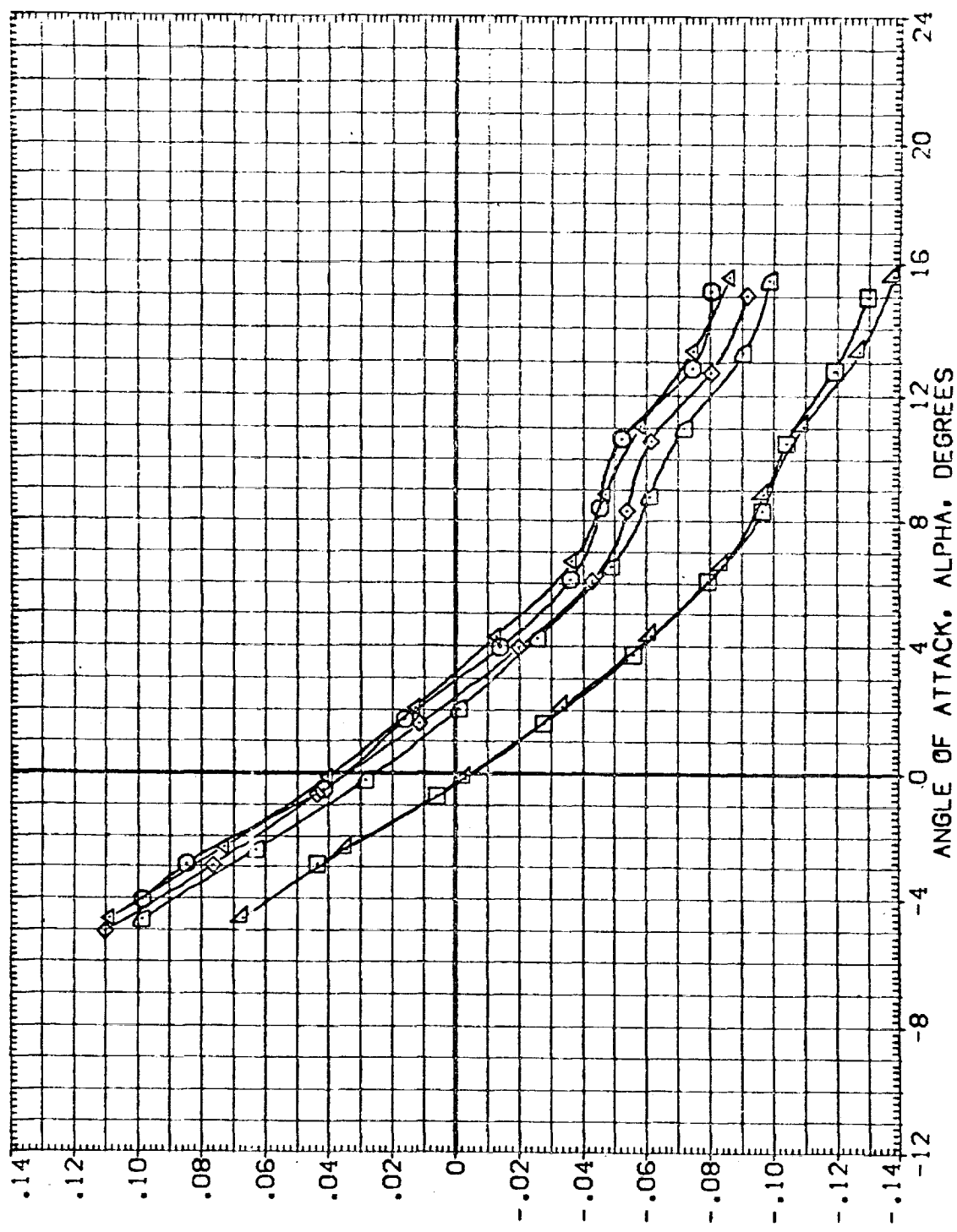


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

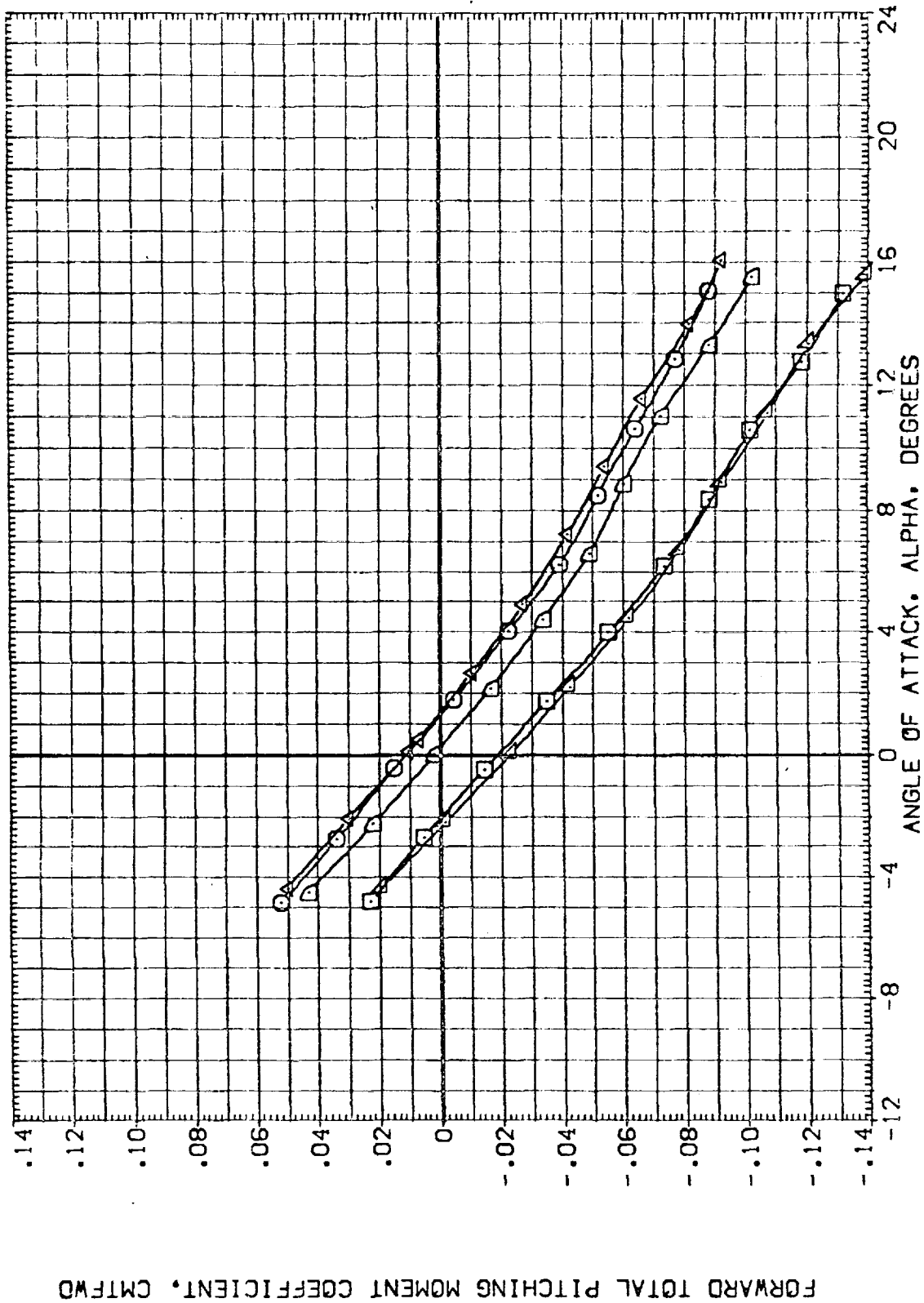


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

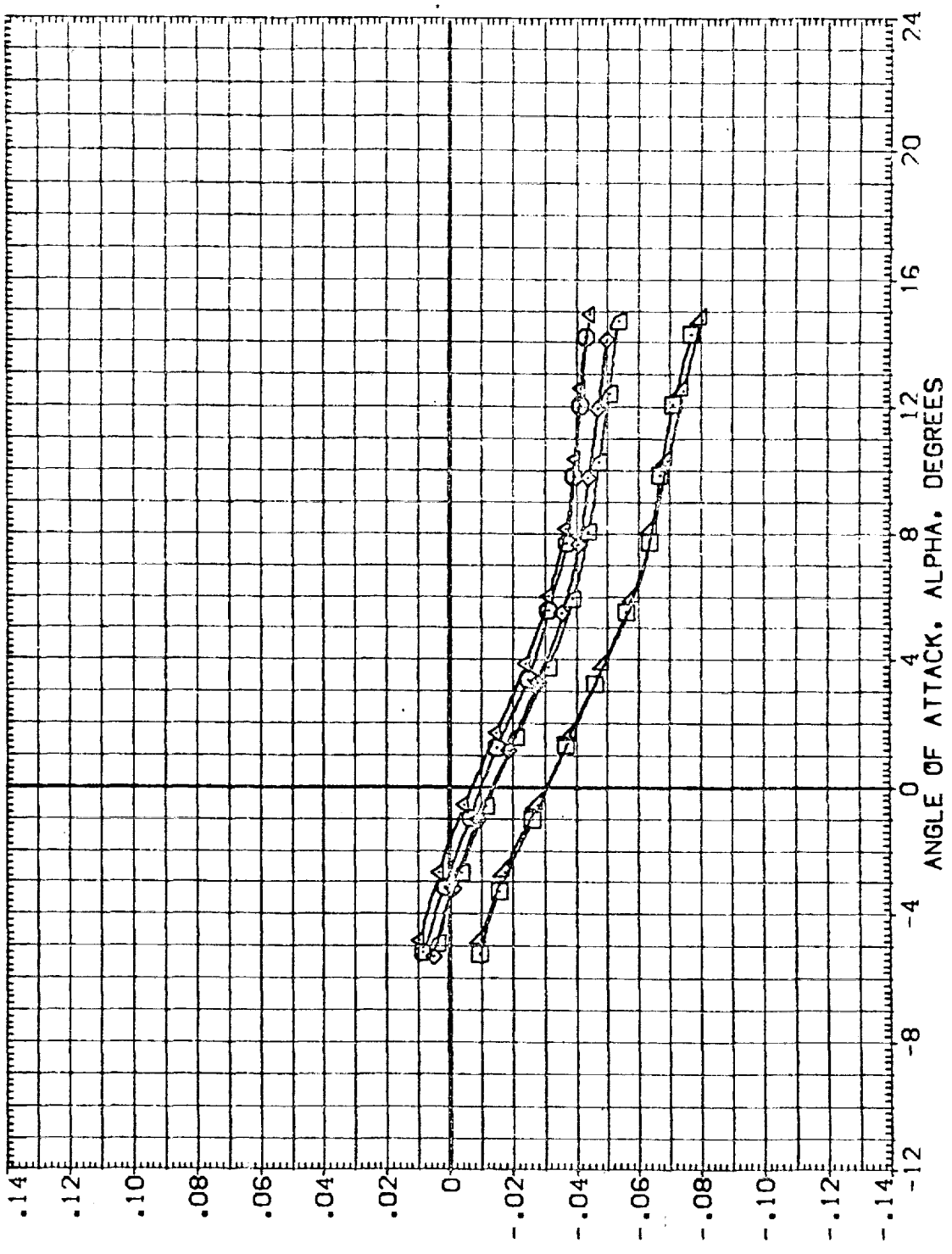


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5936 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

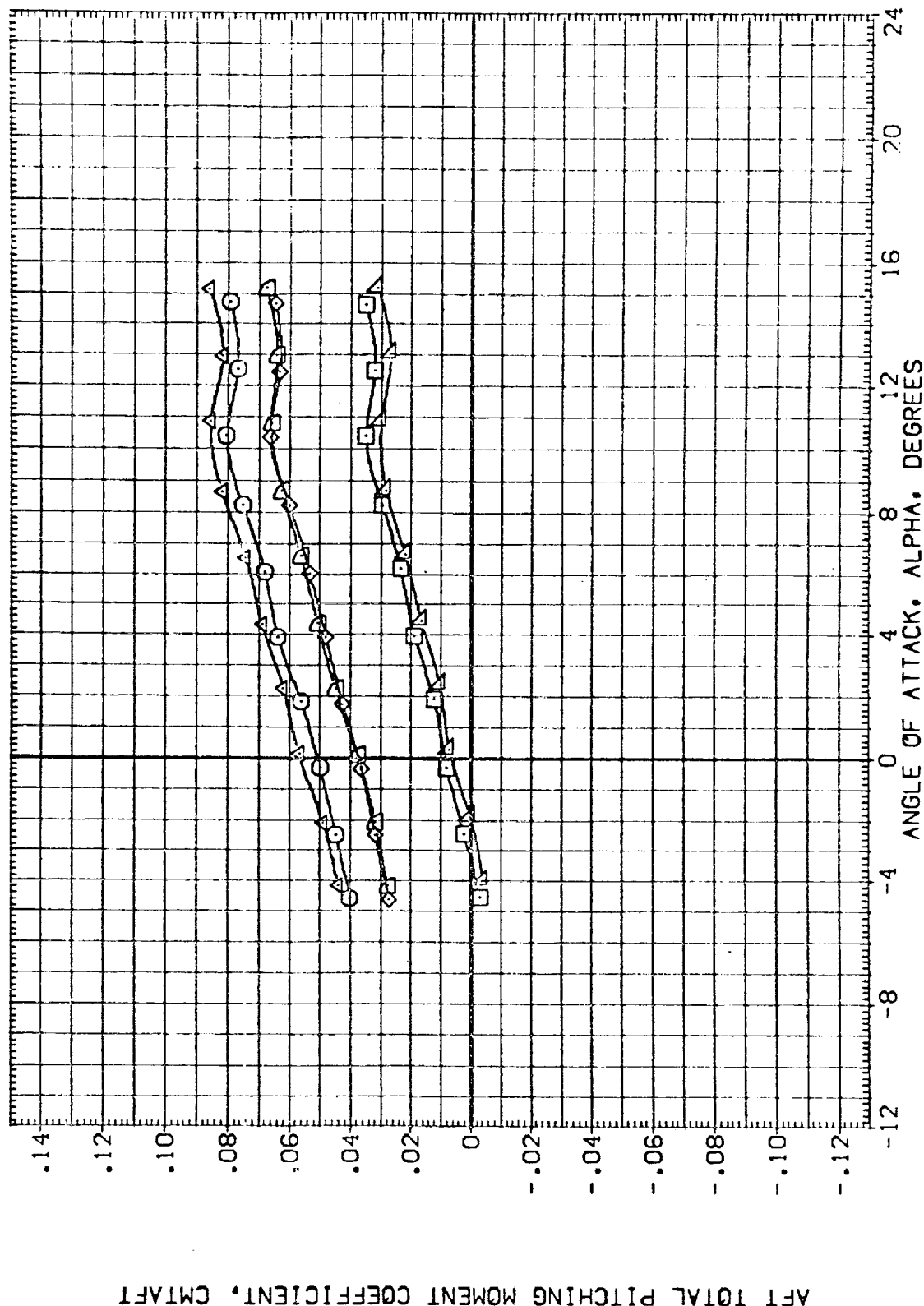


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

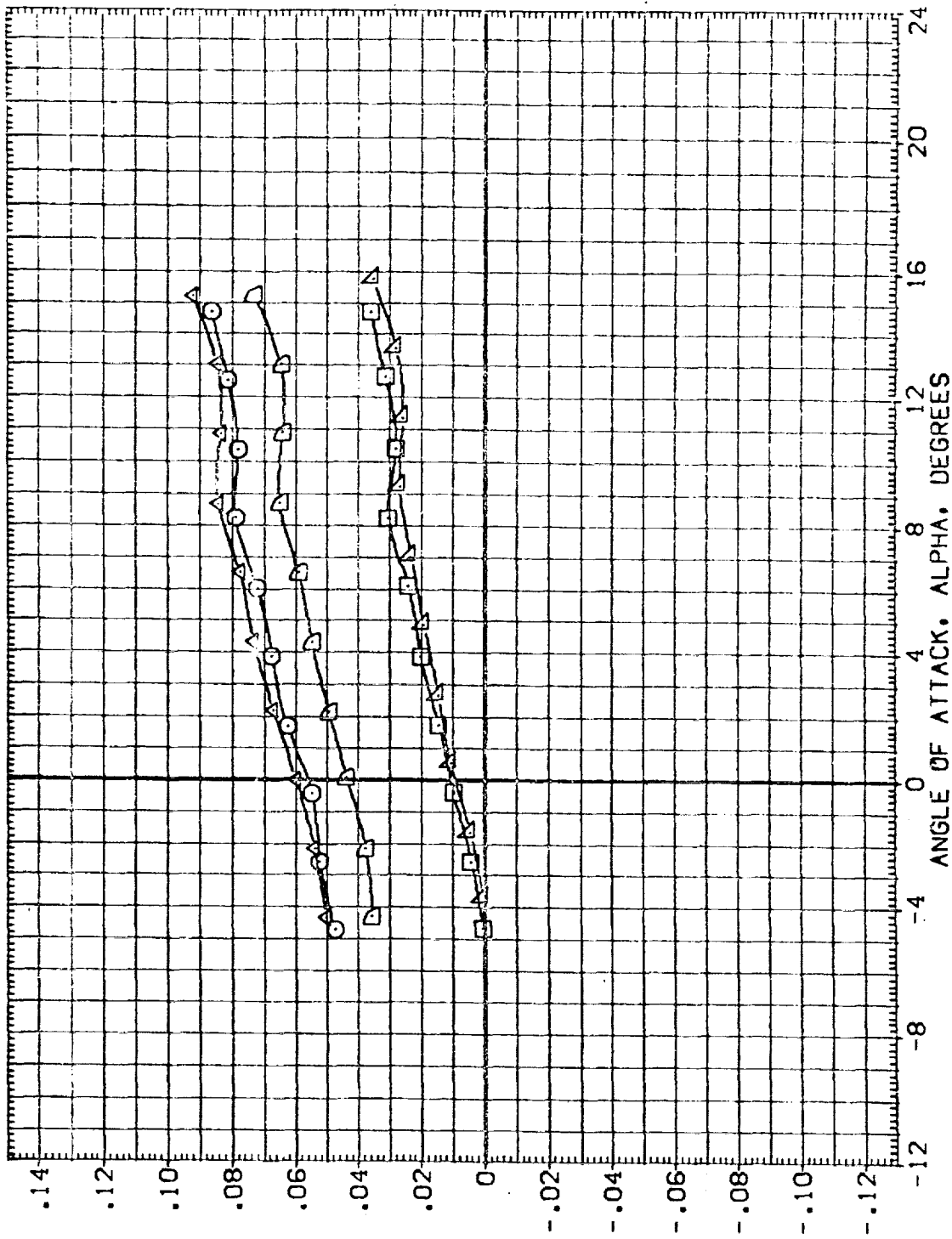


FIG. 5 - BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 QAL11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 QAL11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

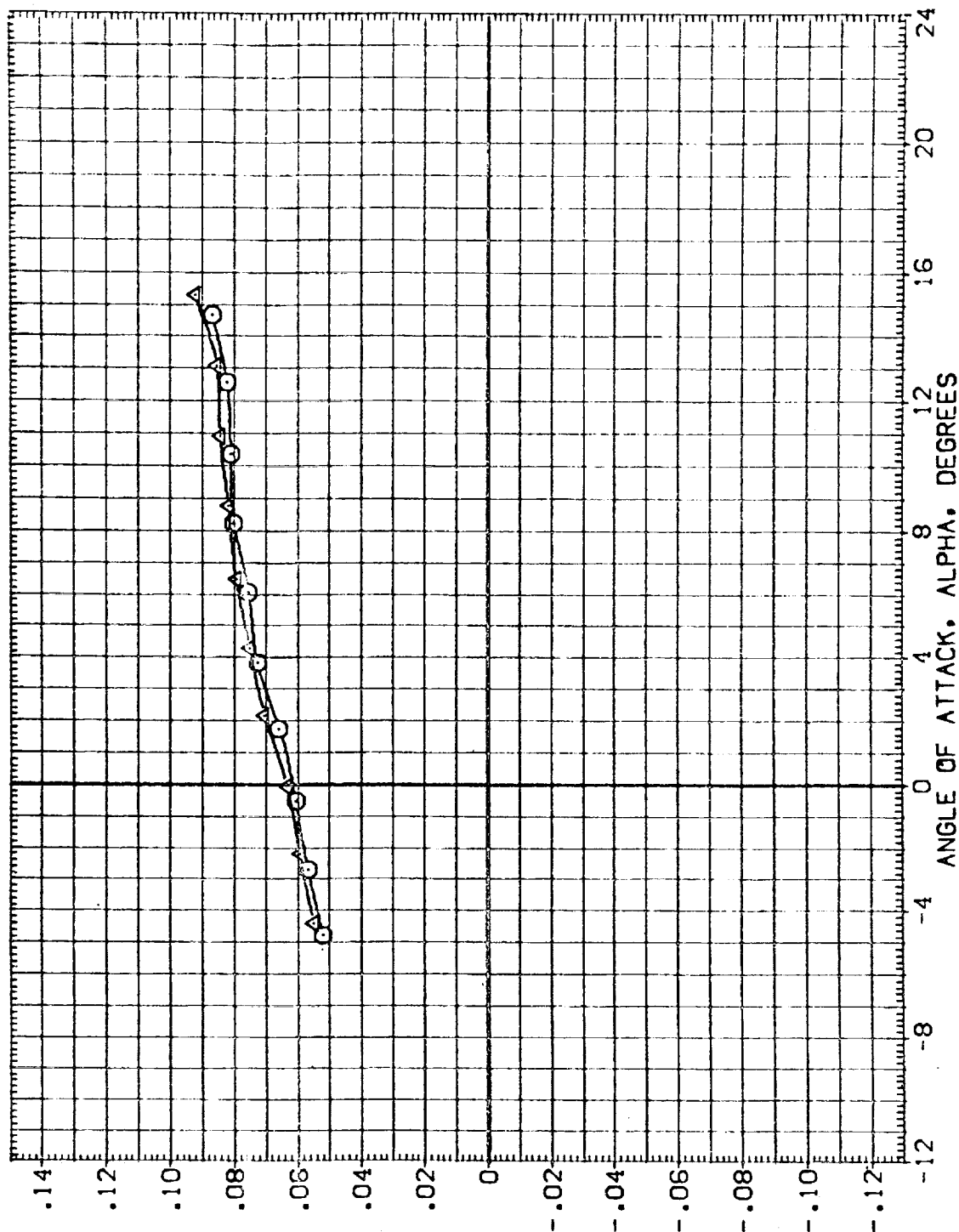


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY LAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.

SCALE .0150

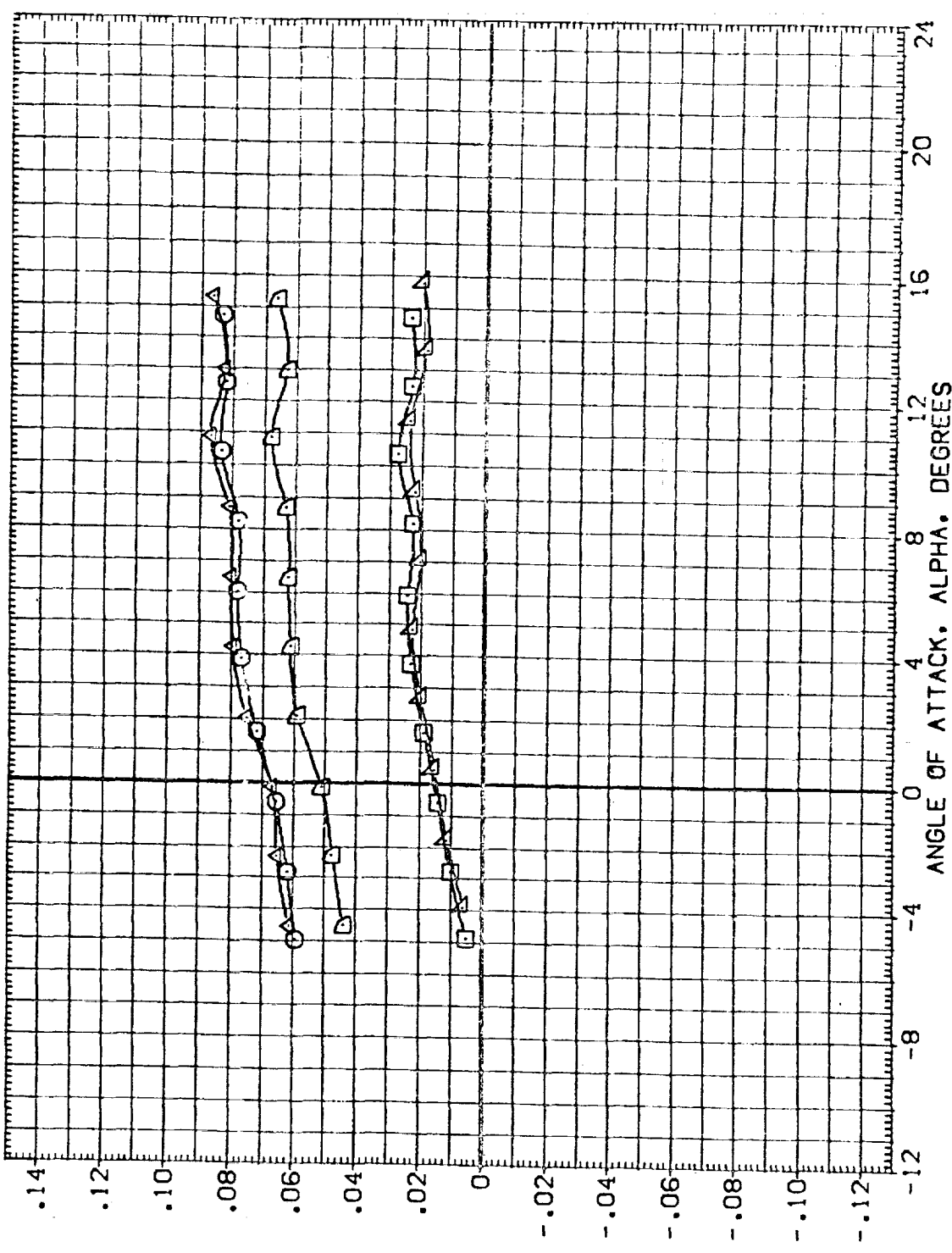
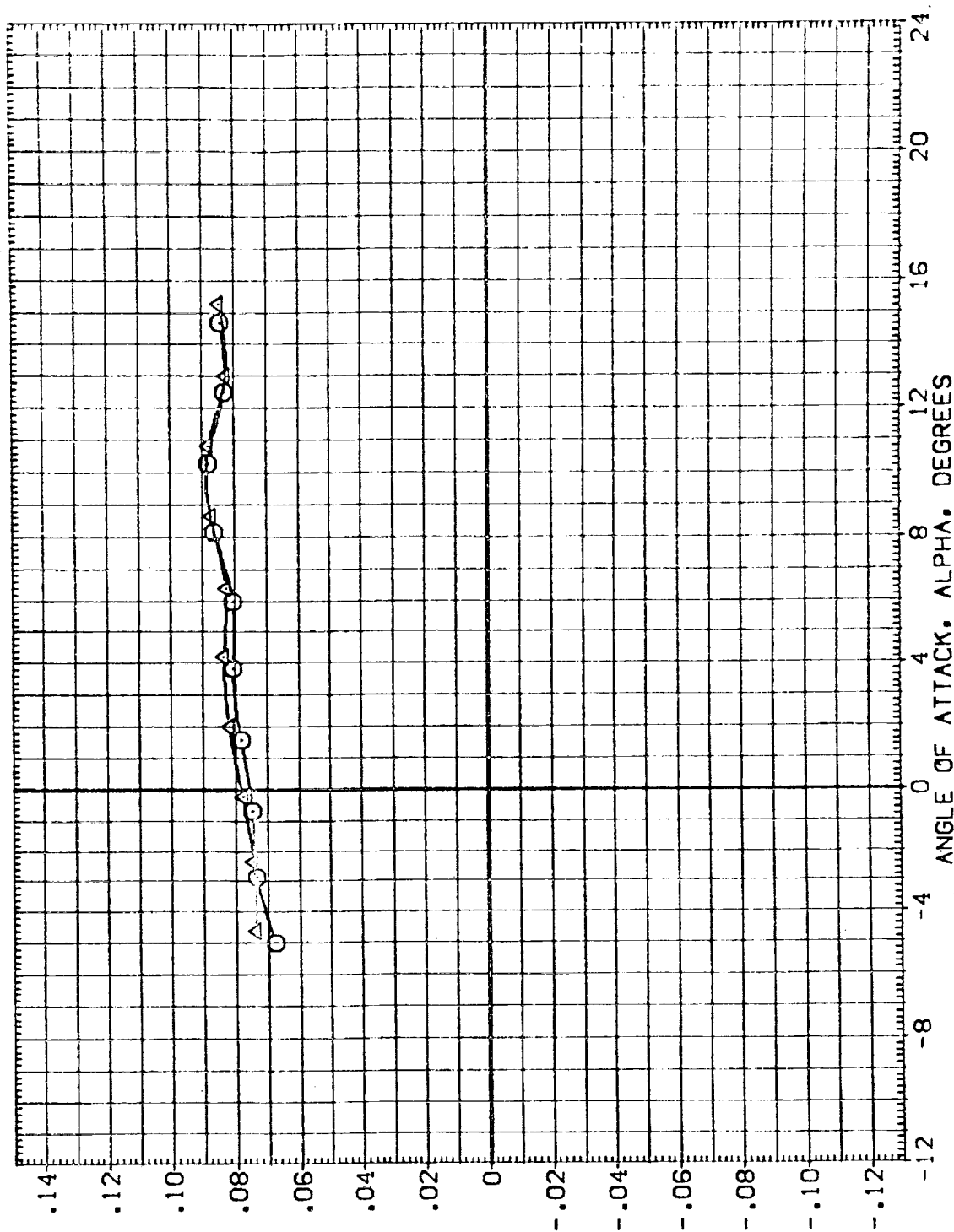


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CO)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GE001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
{GE005}	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
{GE006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{GE012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
{GE014}	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
{GE015}	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



AFT TOTAL PITCHING MOMENT COEFFICIENT, CMTAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	-16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

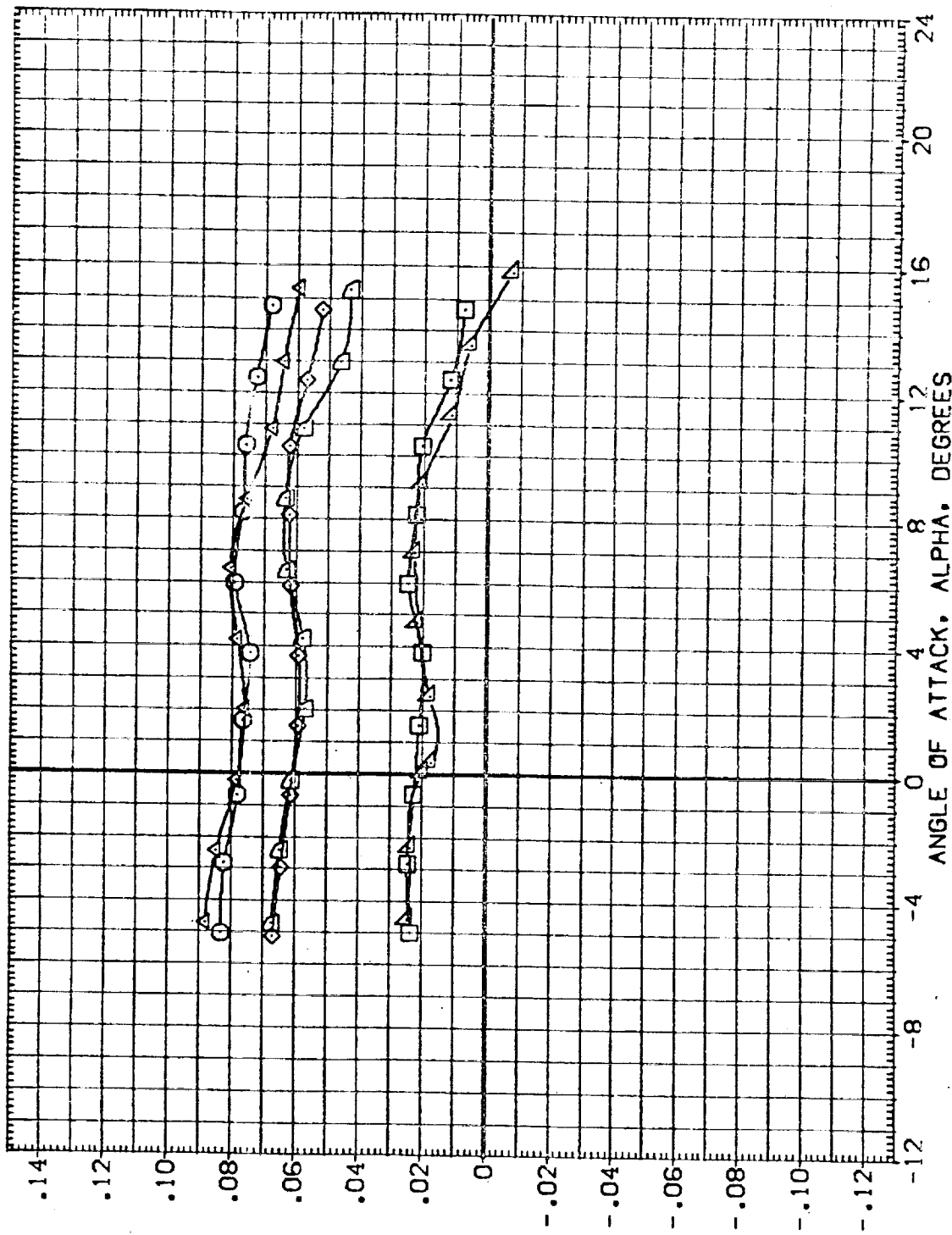


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



AFT TOTAL PITCHING MOMENT COEFFICIENT, CMTAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 0A11A-(N24 R5 V81)+STRUT+DUH STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

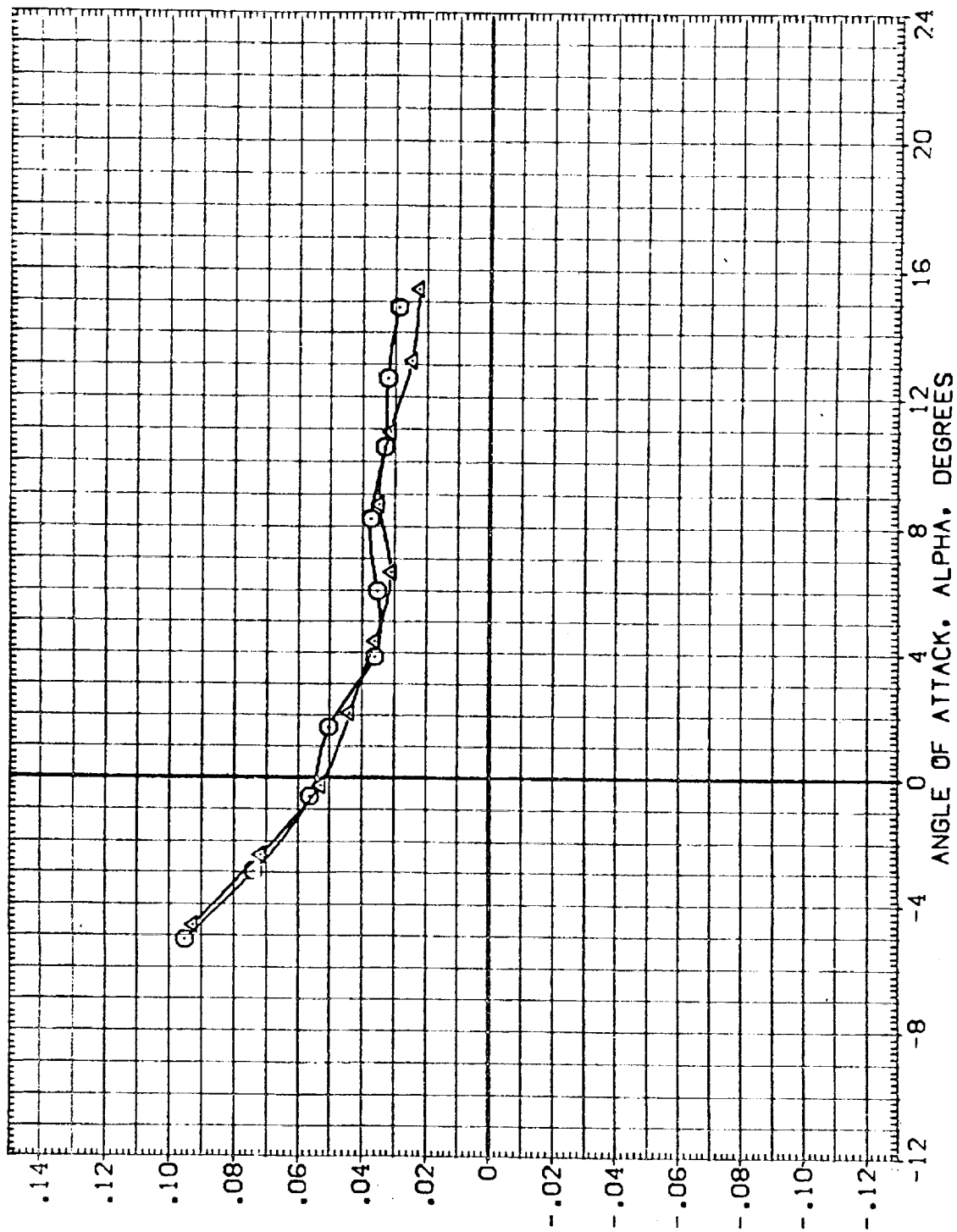


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 50 FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-16.300	LREF 5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

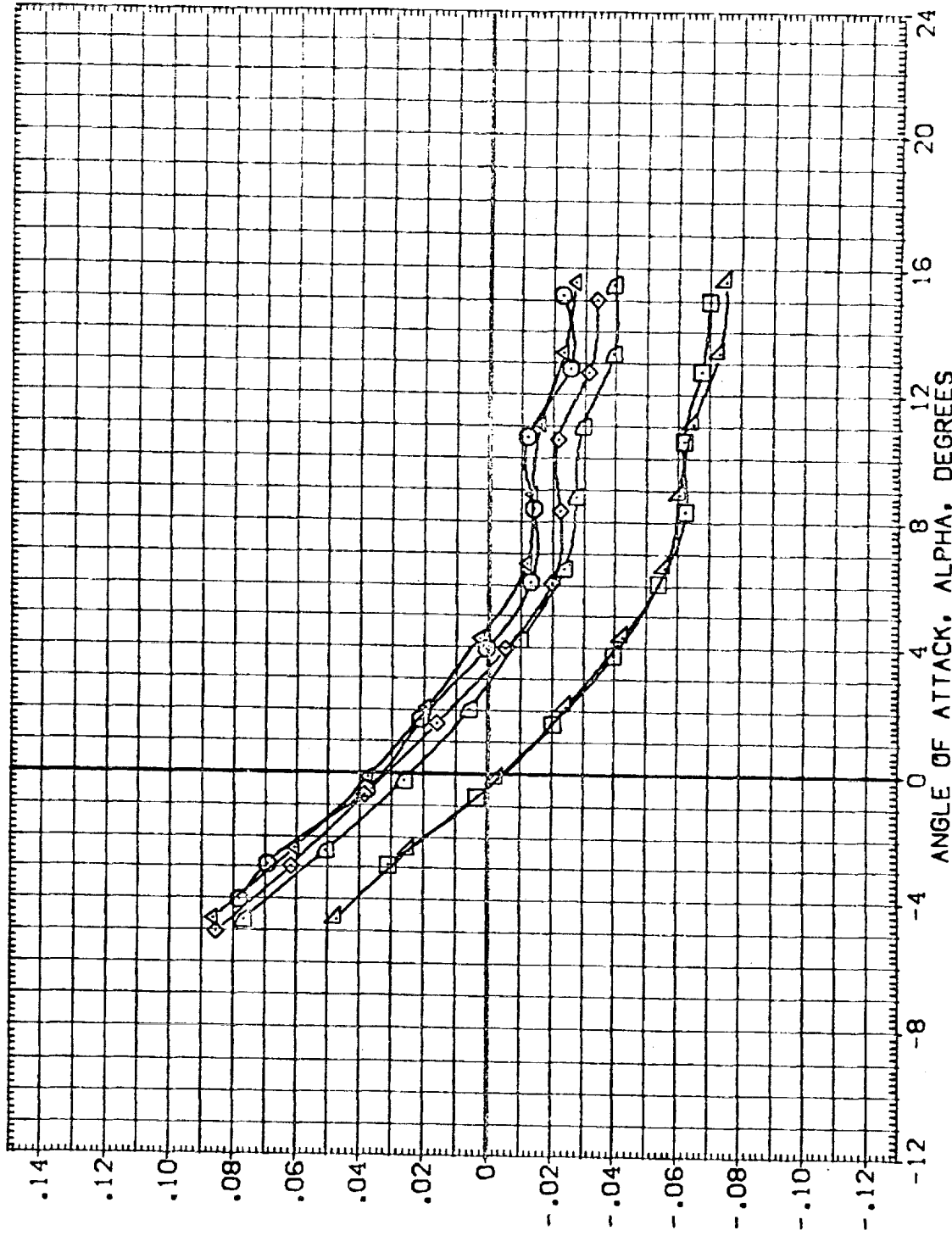


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL  
 (GER001)  
 (GER005)  
 (GER006)  
 (GER012)  
 (GER014)  
 (GER015)

CONFIGURATION DESCRIPTION  
 ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG  
 ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG  
 DATA NOT AVAILABLE  
 ARC 66-709 0A59 0A11A-(RS V81+STRUT  
 ARC 66-709 0A59 0A11A-(RS V81+STRUT  
 ARC 66-709 0A59 0A11A-(RS V81+STRUT

BETA  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

ELEVON  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

BOFLAP  
 -11.700  
 16.300  
 .000  
 -11.700  
 16.300  
 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

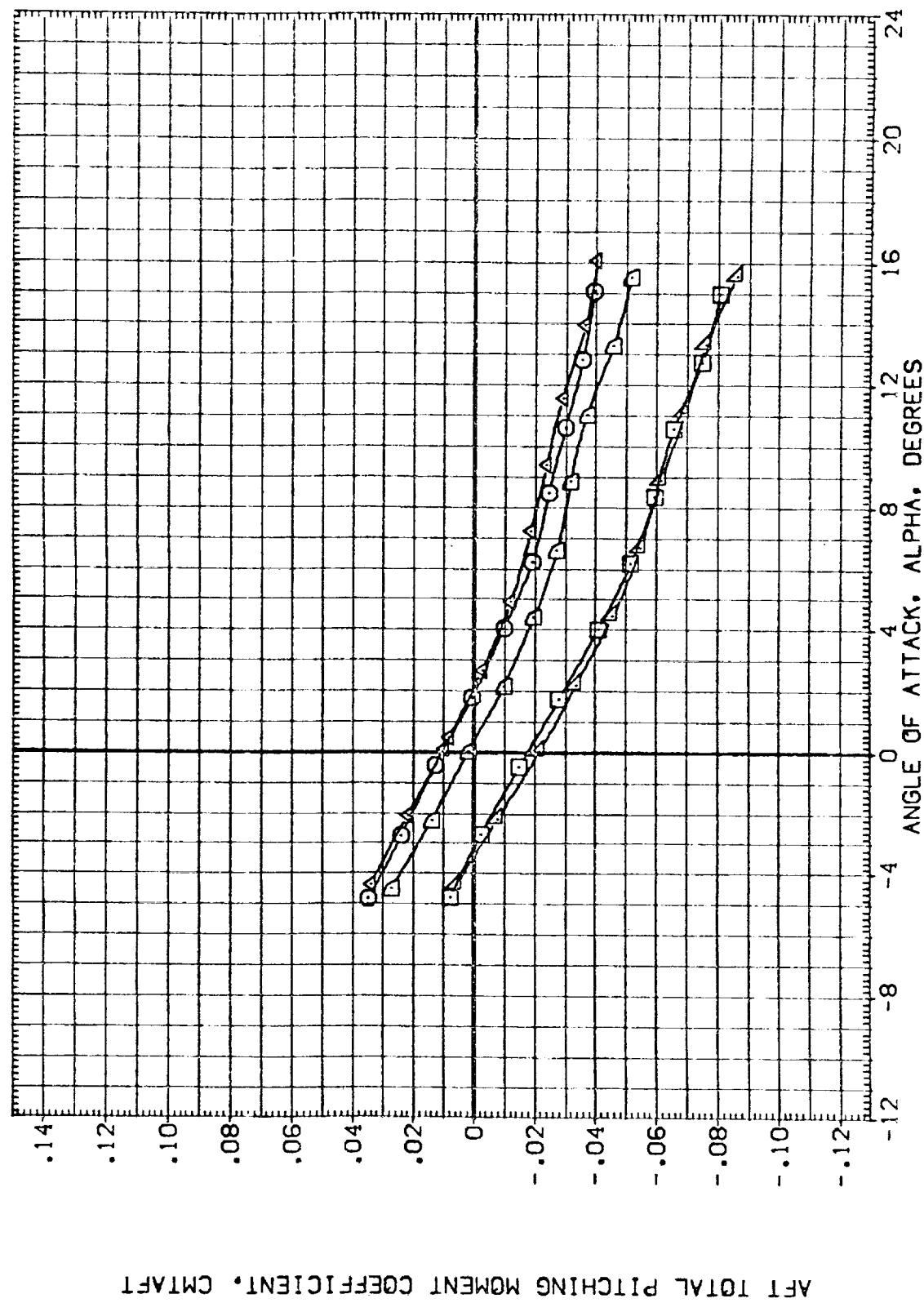


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE -.0150

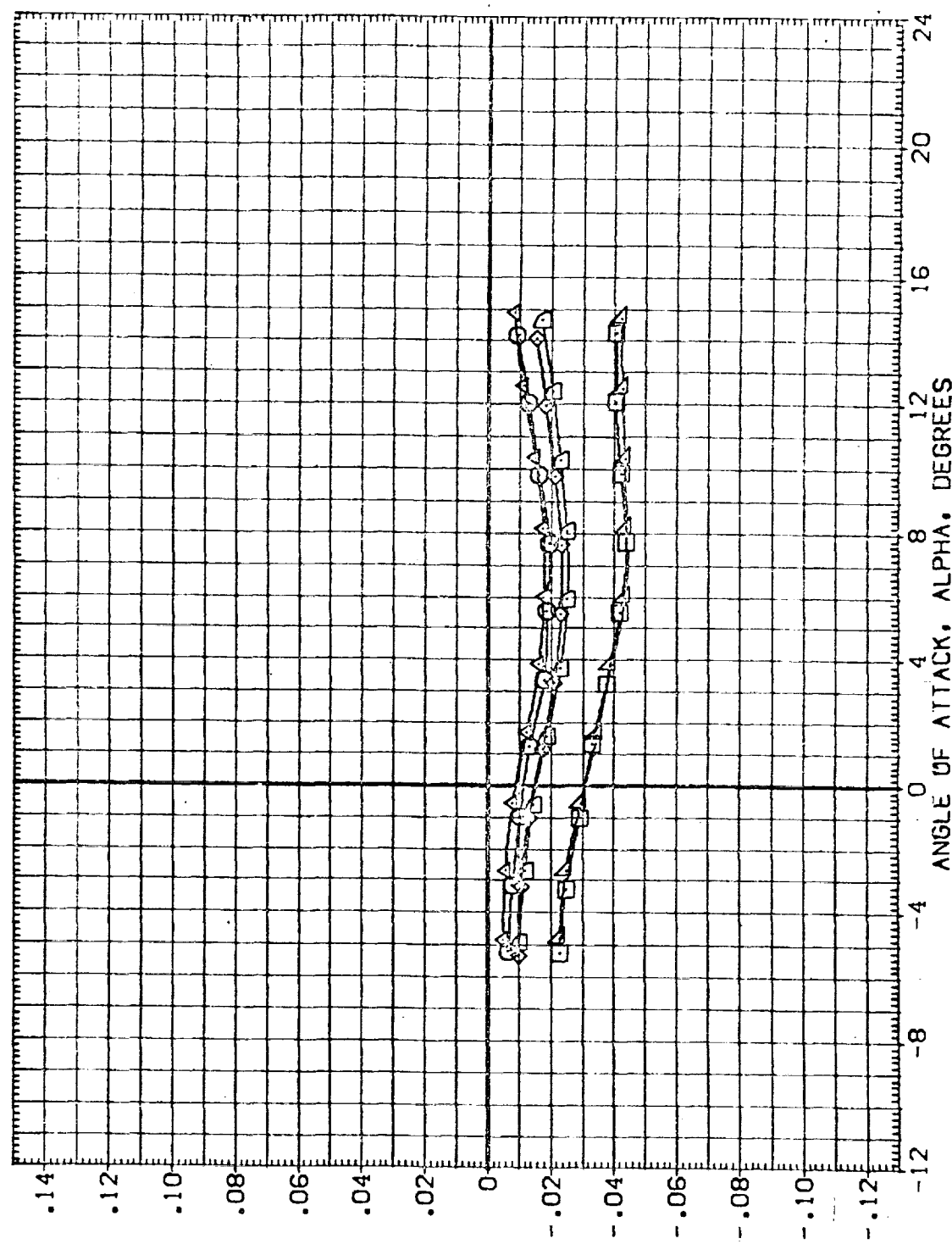


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

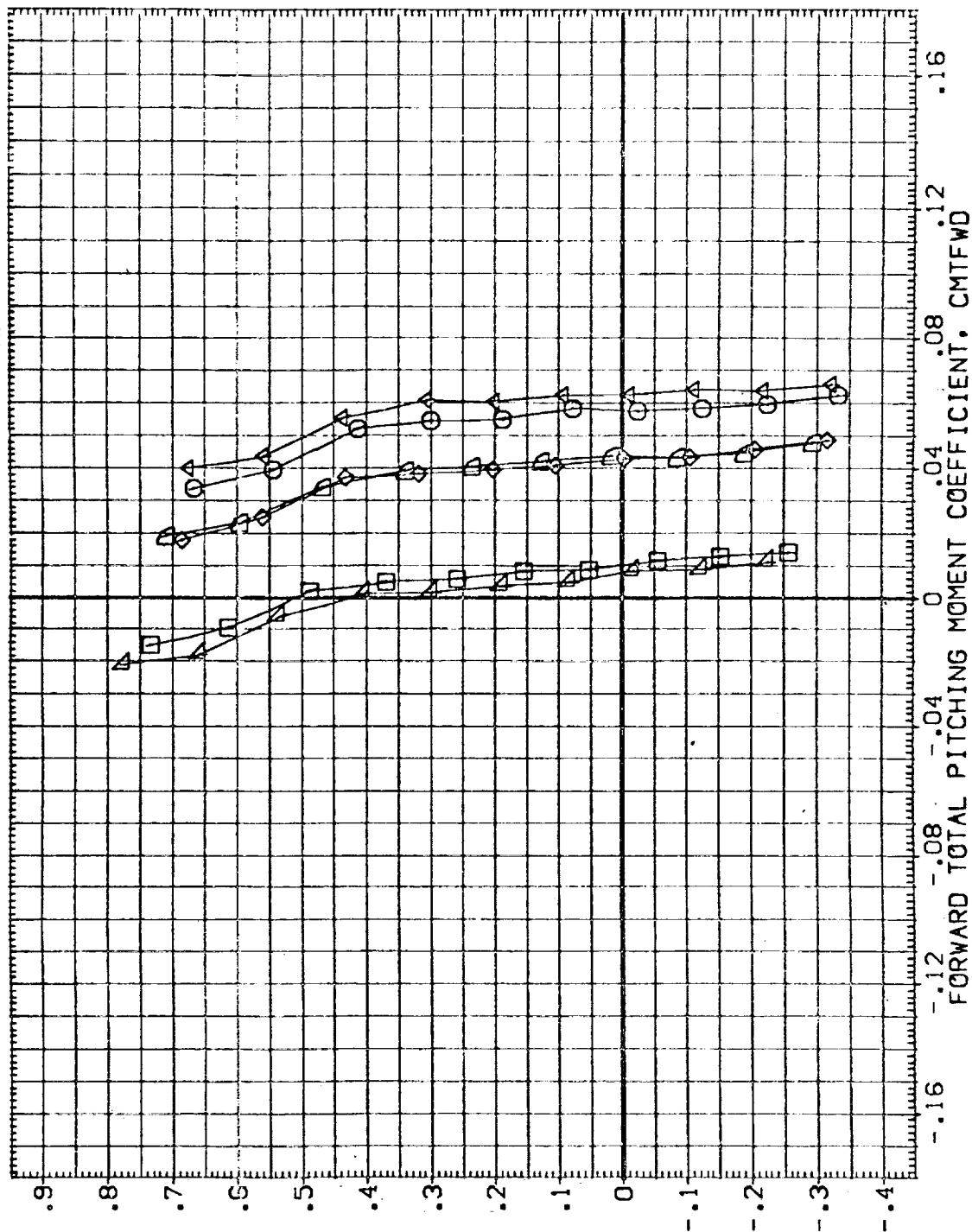


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(GER001)    ARC 66-709 OAS9 OAI1A-(N24 RS V81)-STRUT+DUM STING    SREF    -5053    50.FT.

(GER005)    ARC 66-709 OAS9 OAI1A-(N24 RS V81)-STRUT+DUM STING    LREF    -5935    FT.

(GER006)    DATA NOT AVAILABLE    BREF    1.1710    IN.

(GER012)    ARC 66-709 OAS9 OAI1A-(RS V81)-STRUT    XMRP    12.6255    IN.

(GER014)    ARC 66-709 OAS9 OAI1A-(RS V81)-STRUT    YMRP    -1.0000    IN.

(GER015)    ARC 66-709 OAS9 OAI1A-(RS V81)-STRUT    ZMRP    -3750    IN.

SCALE    .0150

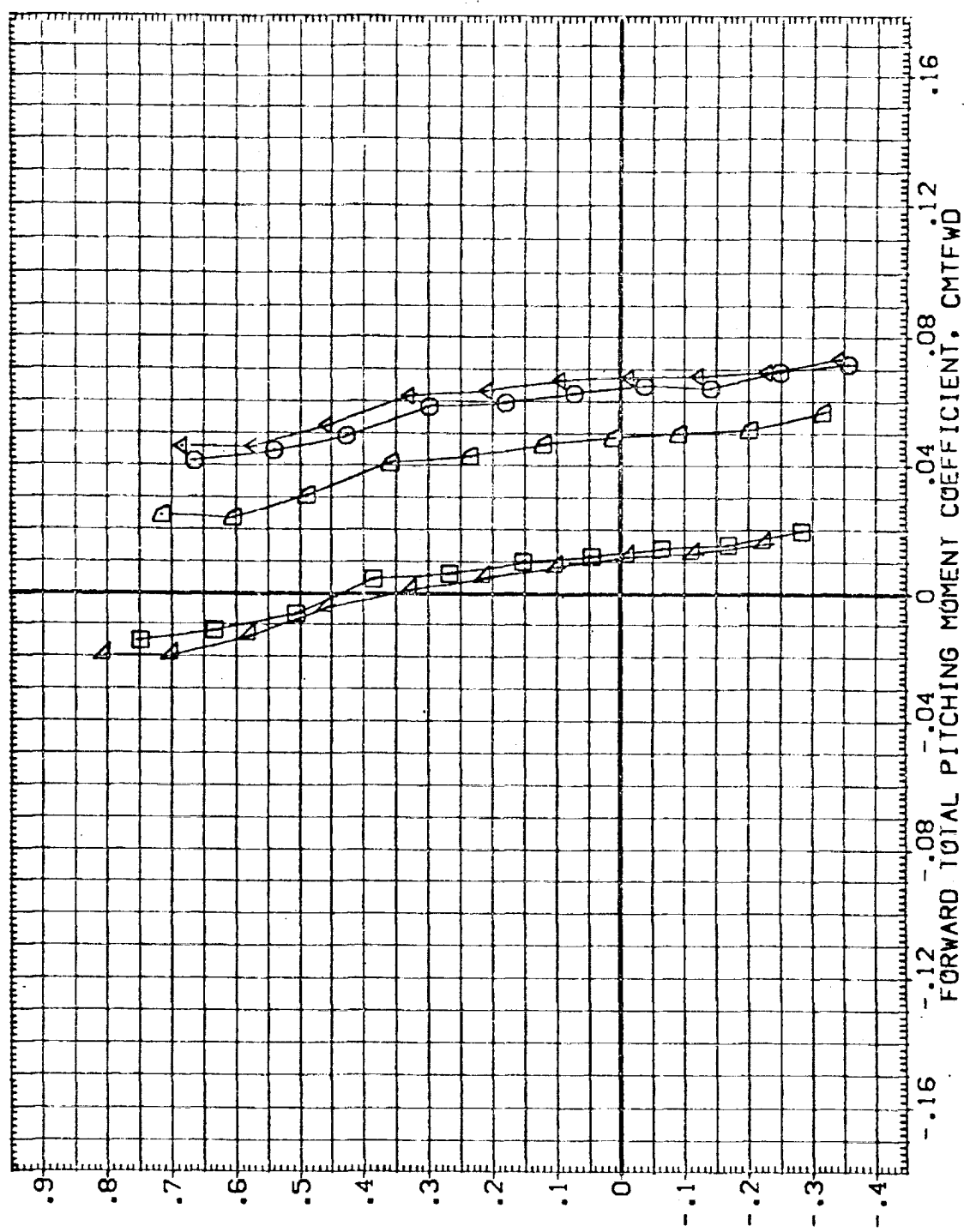


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

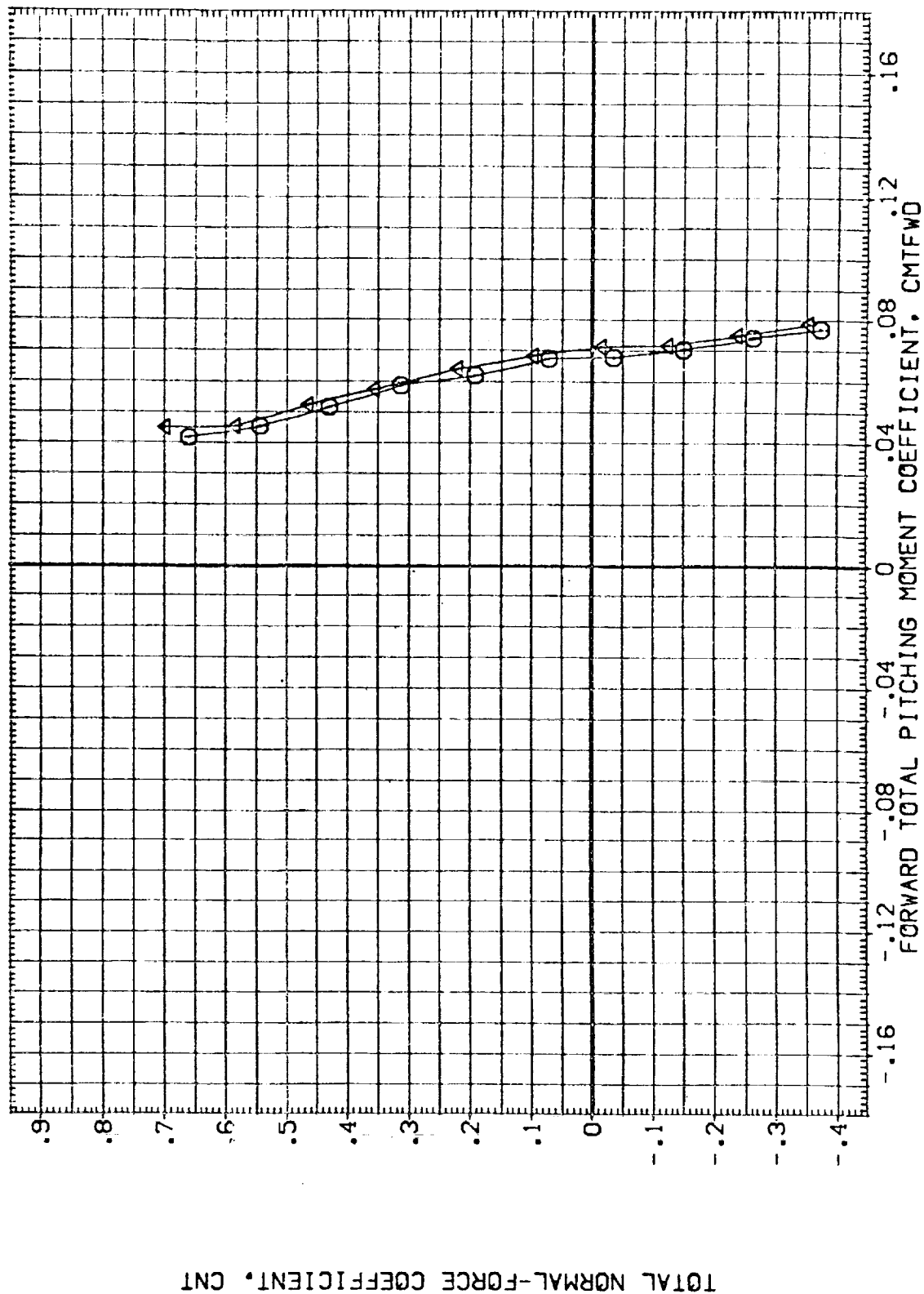


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QJM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QJM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

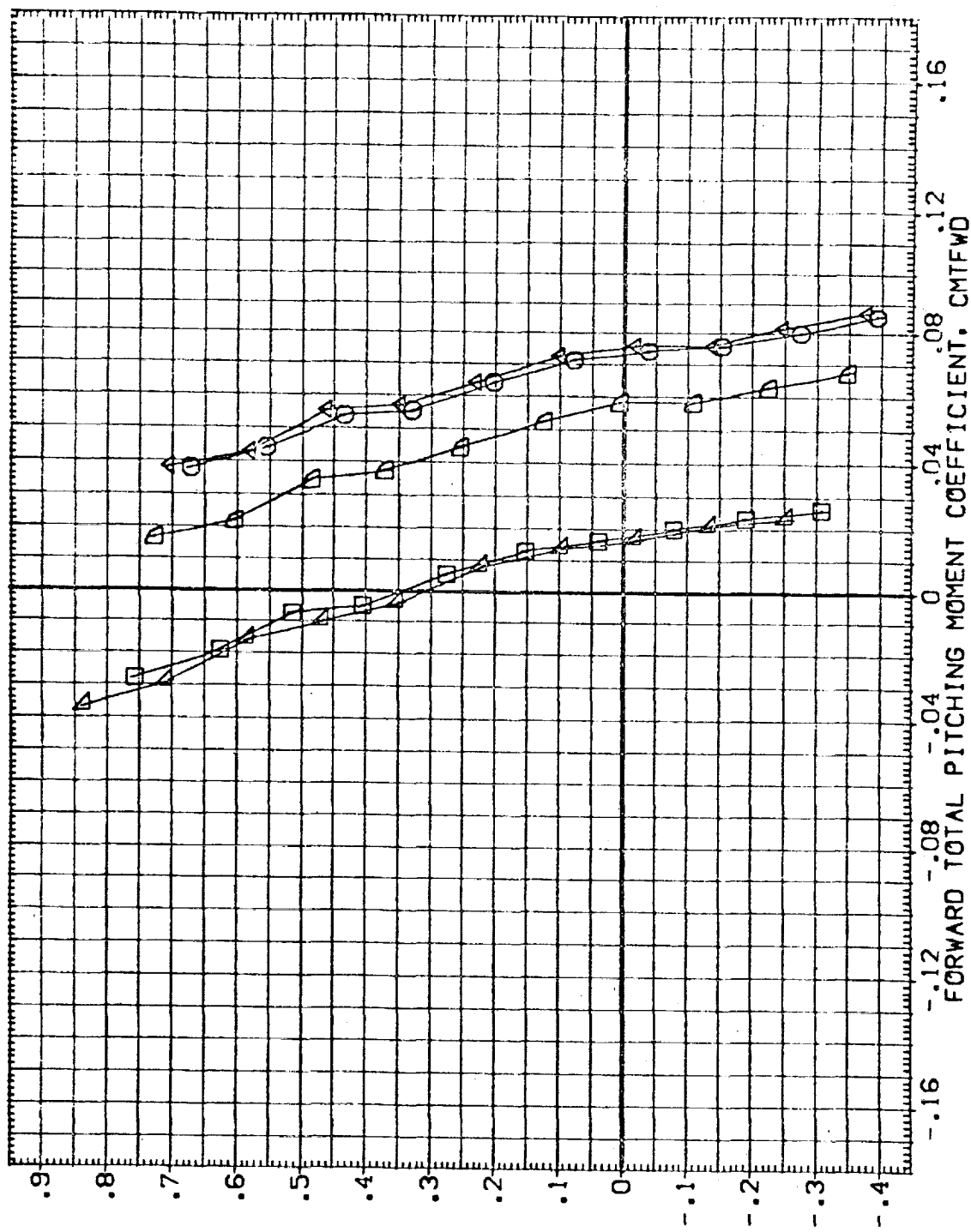


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE -.3750 IN.

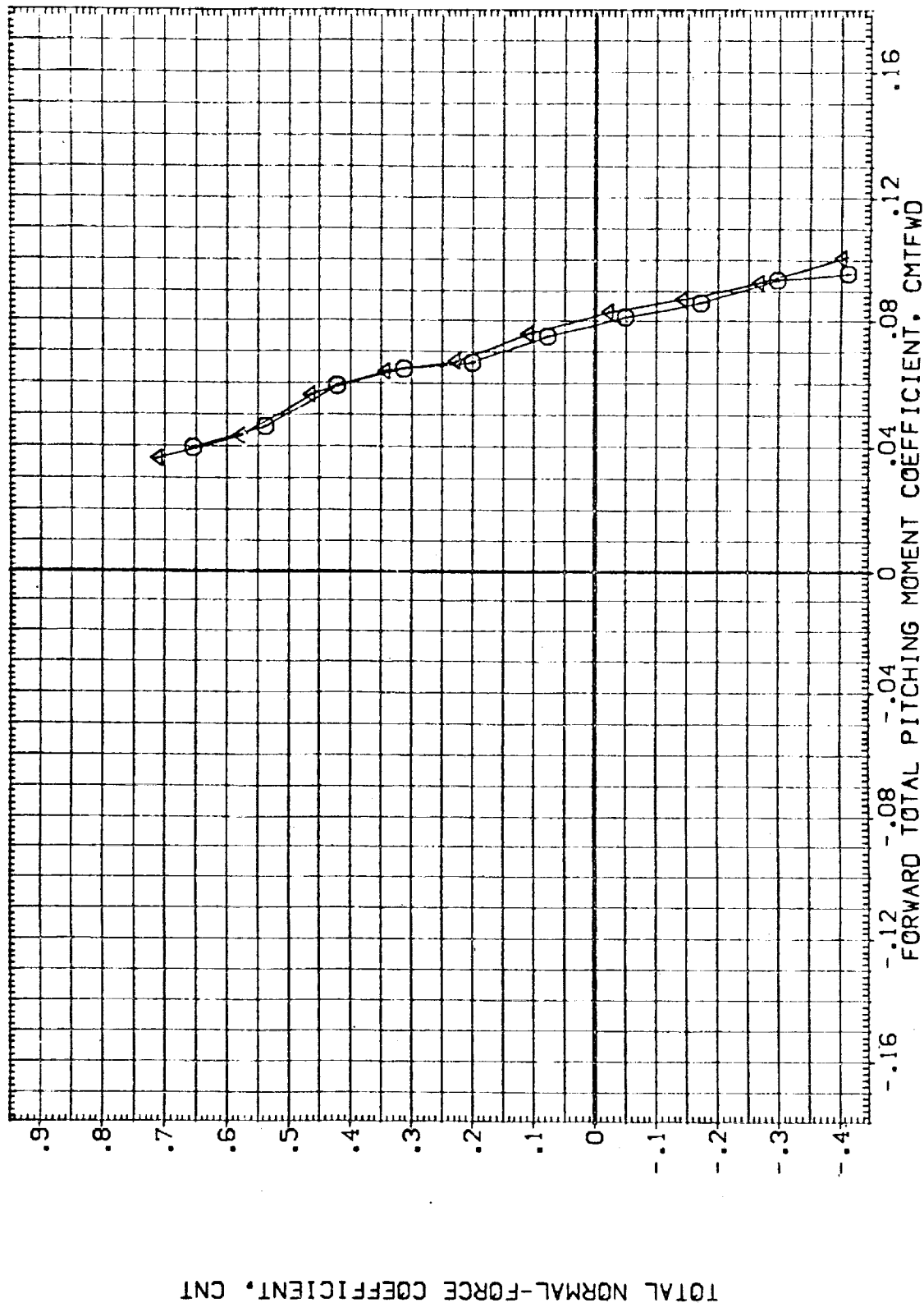


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	BREF 1.1710 IN.
[GER012]	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	.000	ZMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	.000	ZMRP -.3750 IN.

SCALE .0150

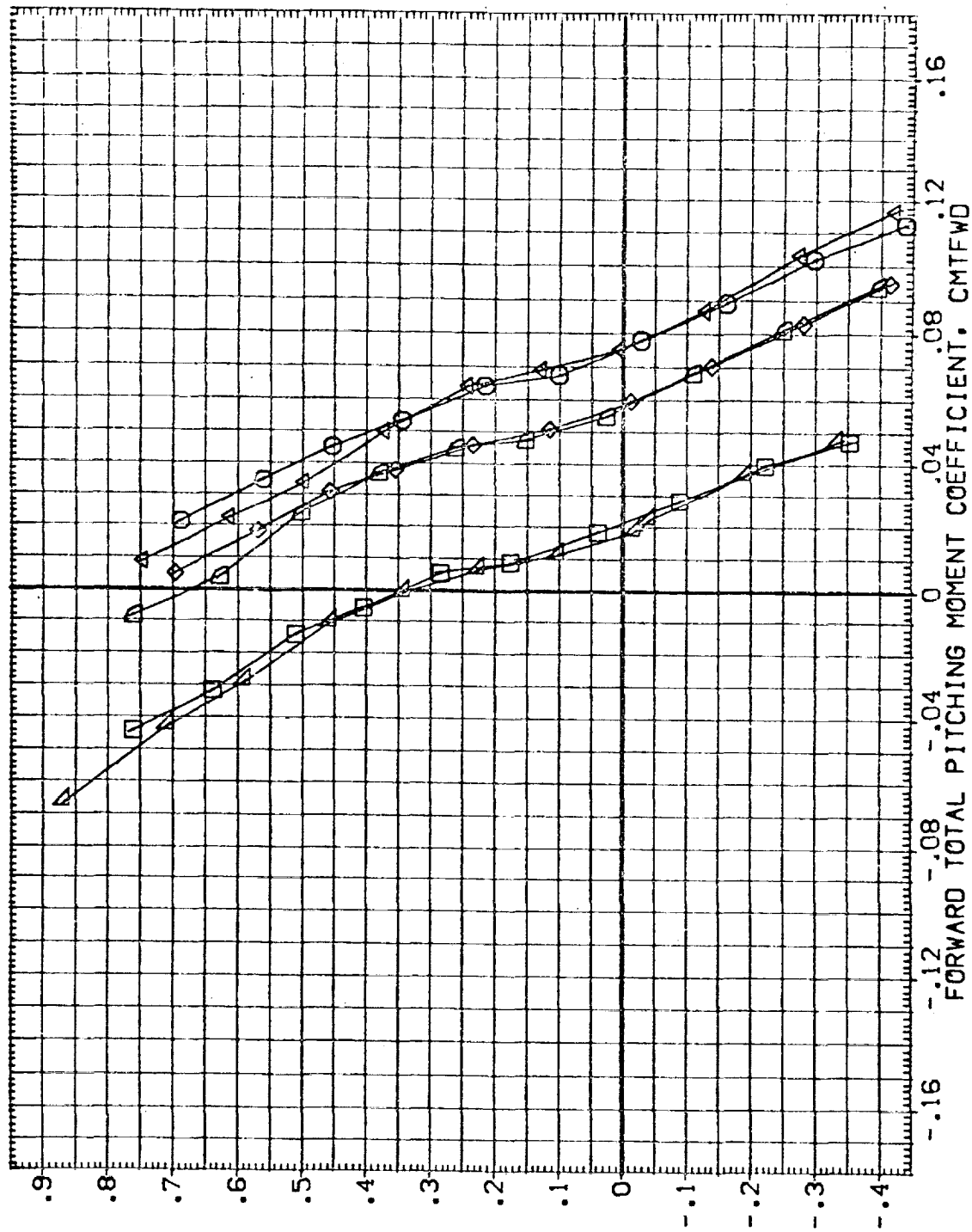


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

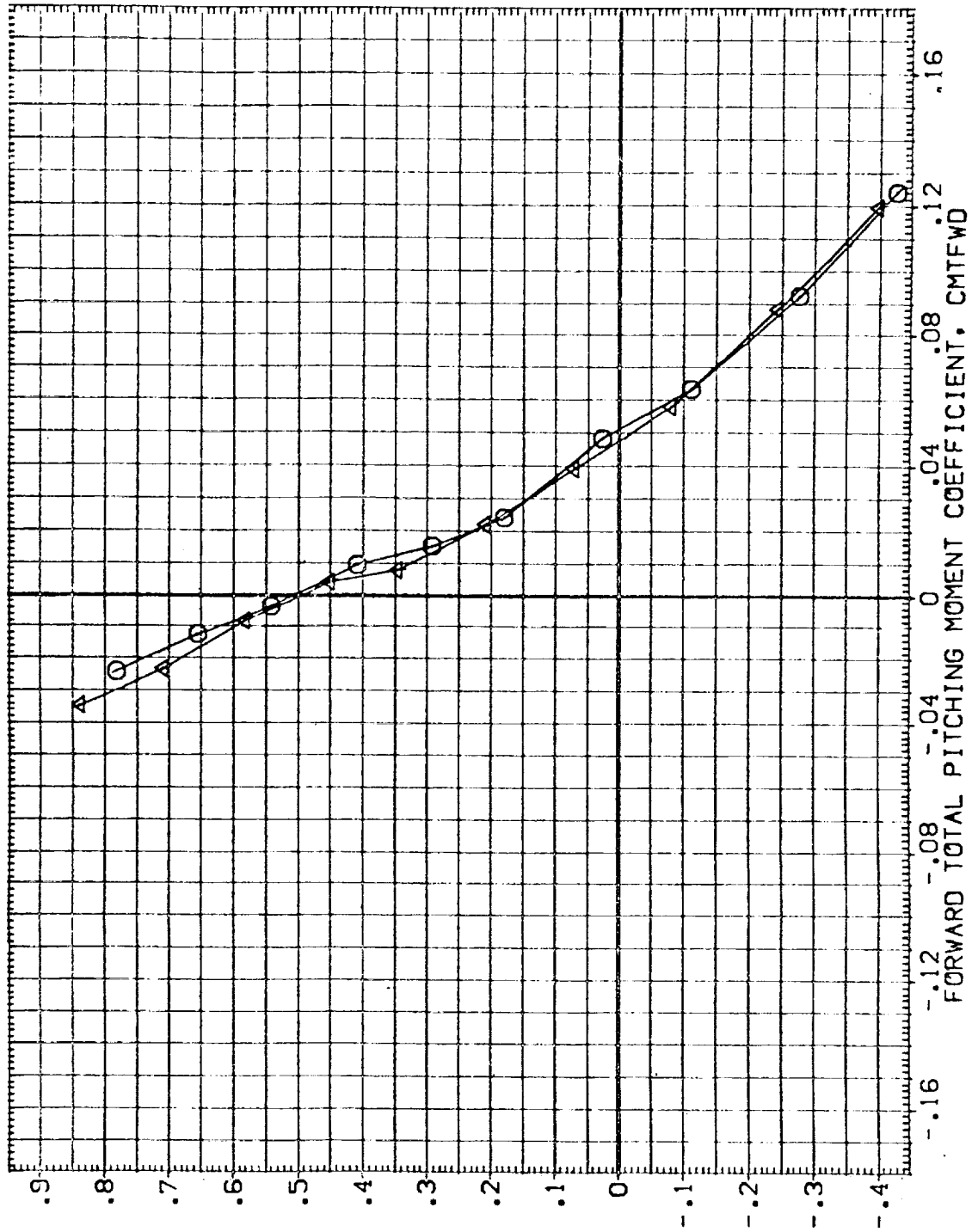


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-16.300	XMRP .0000 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-16.300	YMRP -.3750 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-16.300	ZMRP .0150
					SCALE

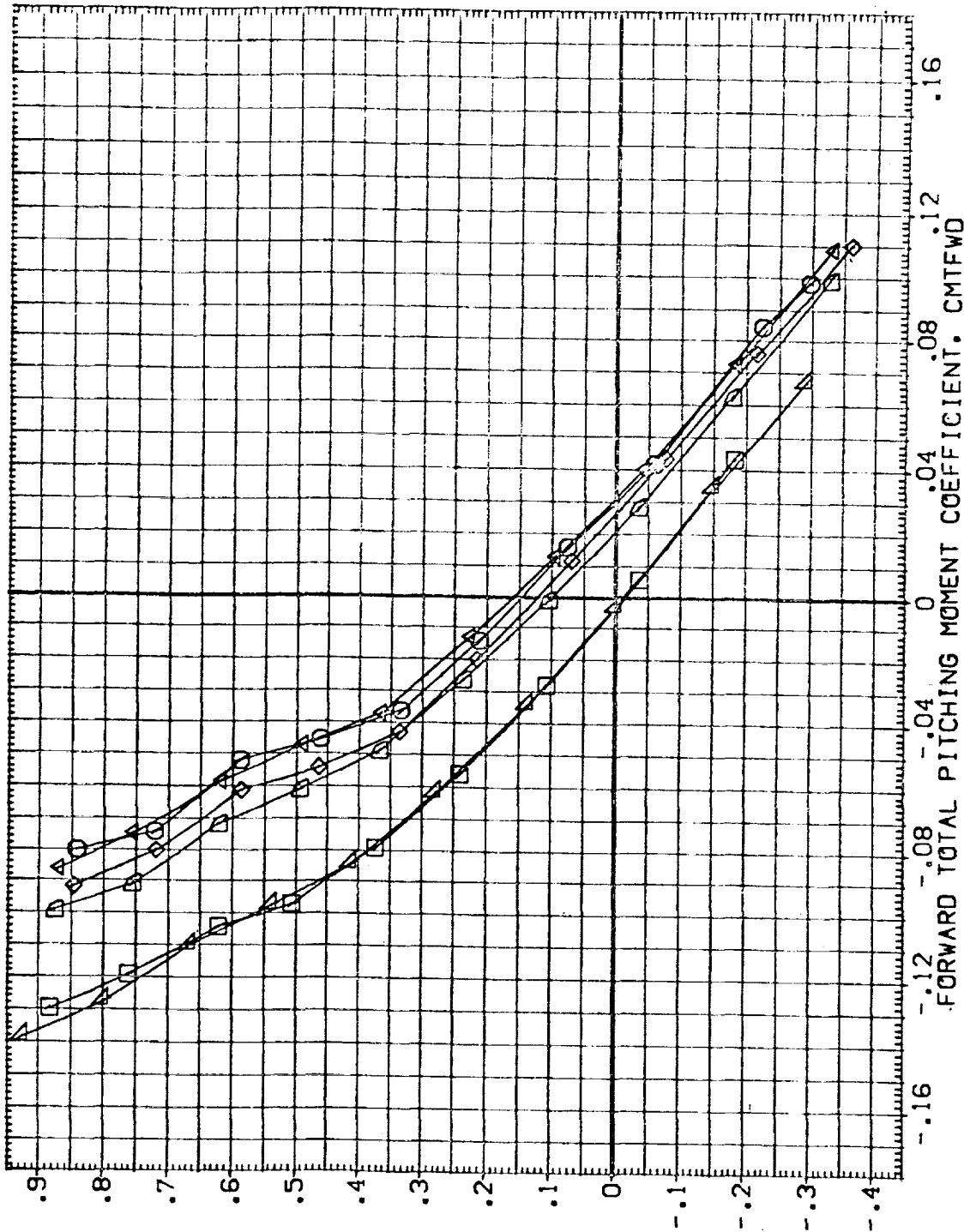


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY FLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

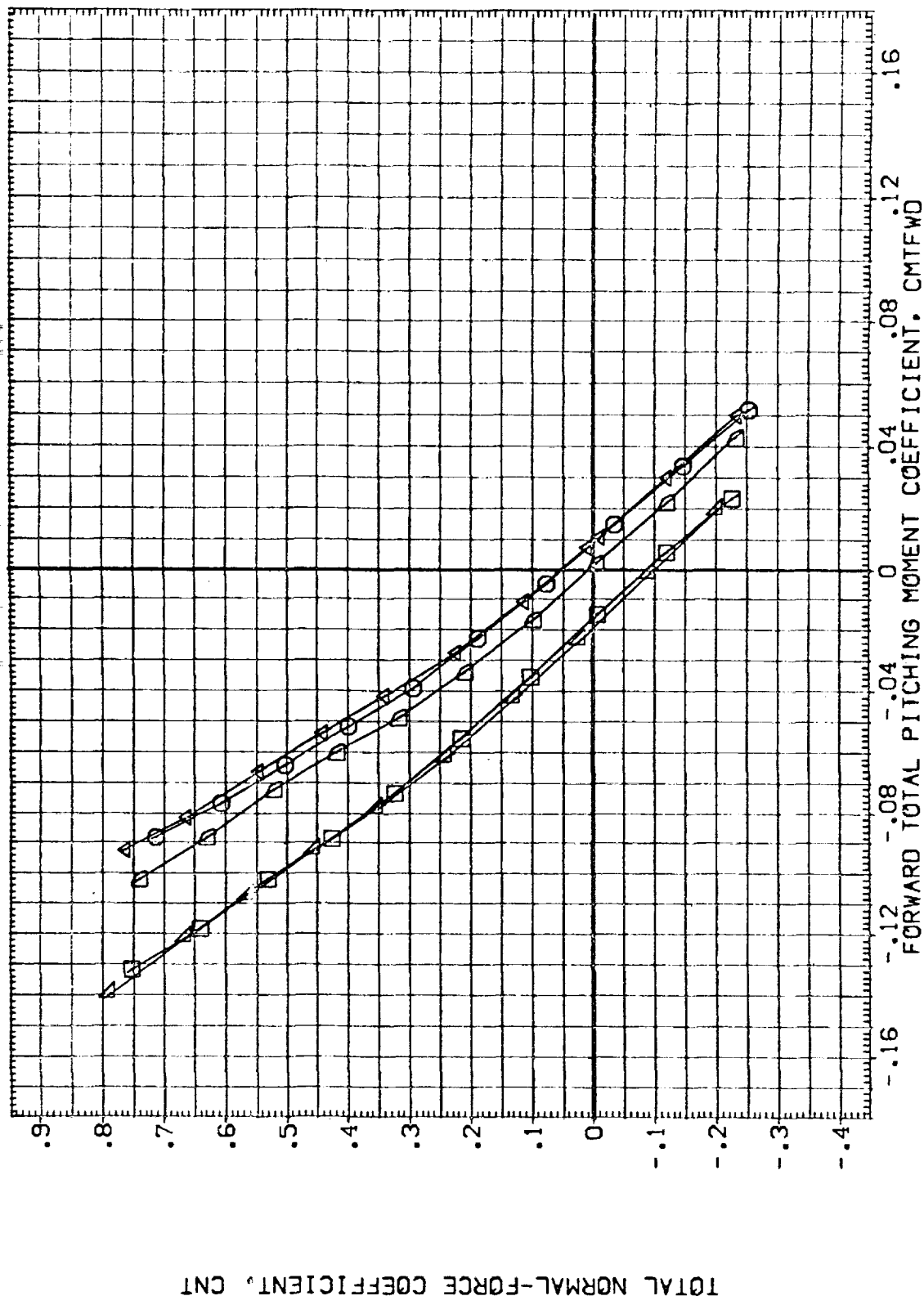


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5335 FT.
(GER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	XMRP 12.6755 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	SCALE .0150

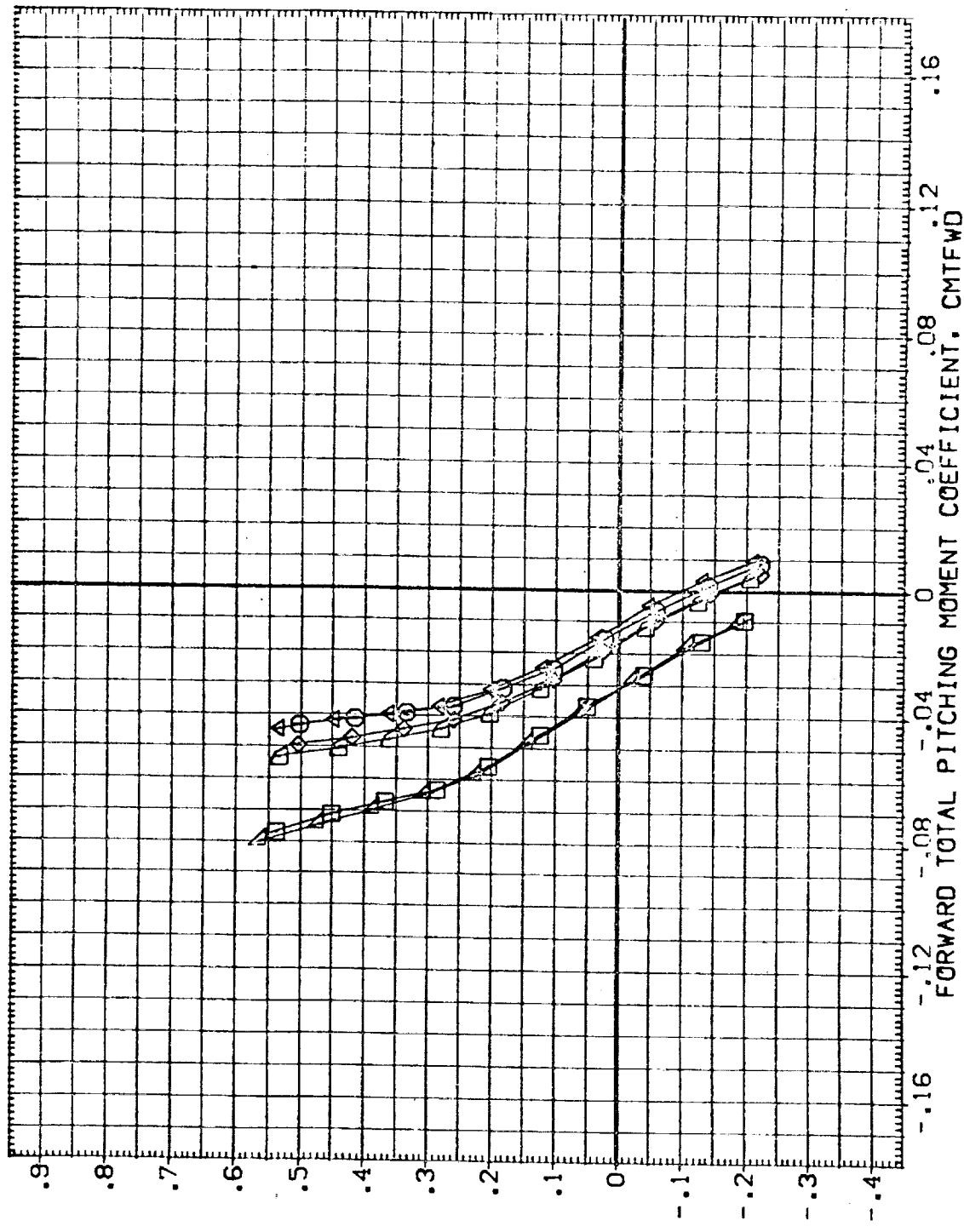


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

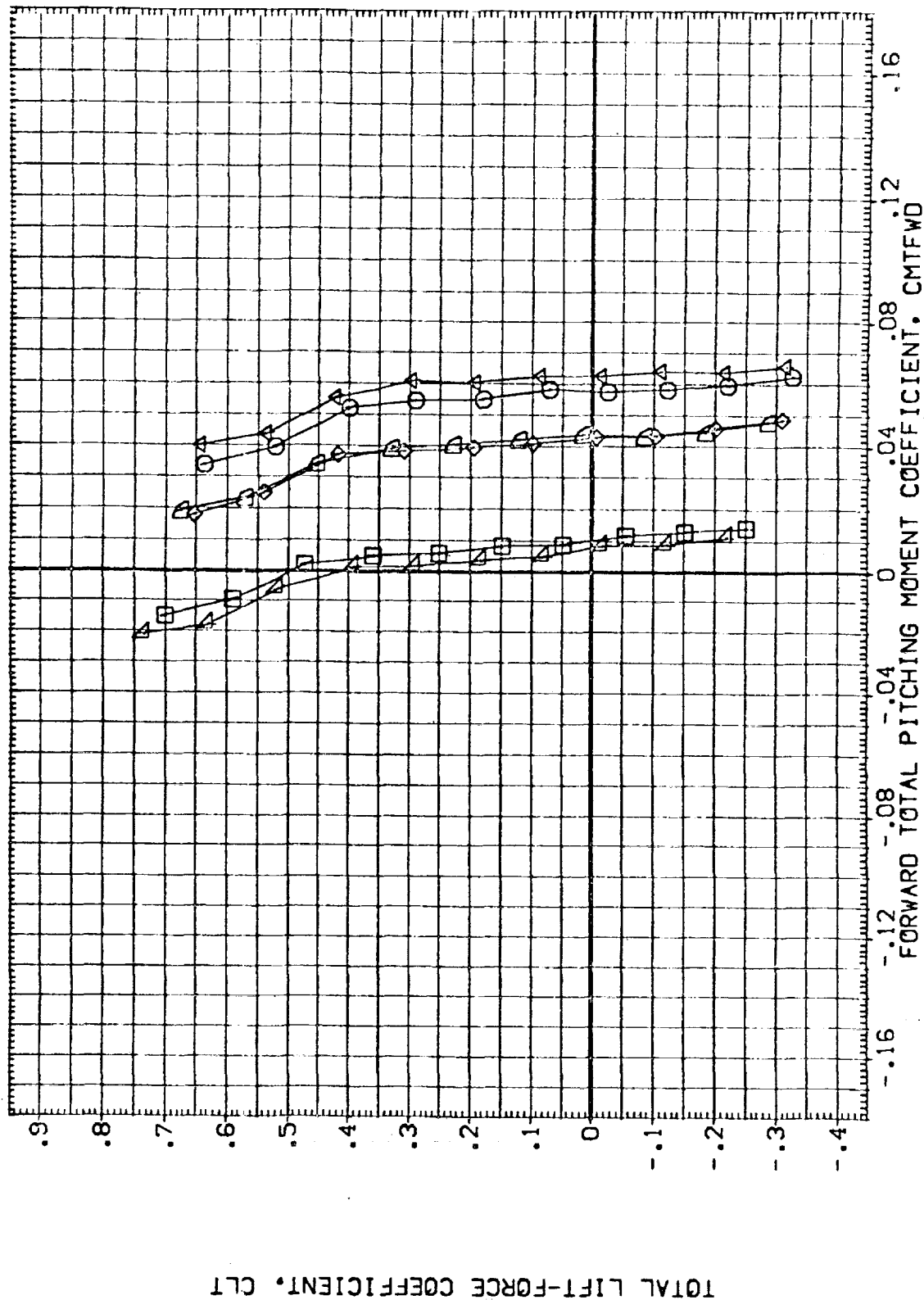


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF	.6053	50. FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF	.5935	FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF	1.1710	FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP	12.6255	IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP	.0000	IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP	-.3750	IN.
					SCALE	.0150	

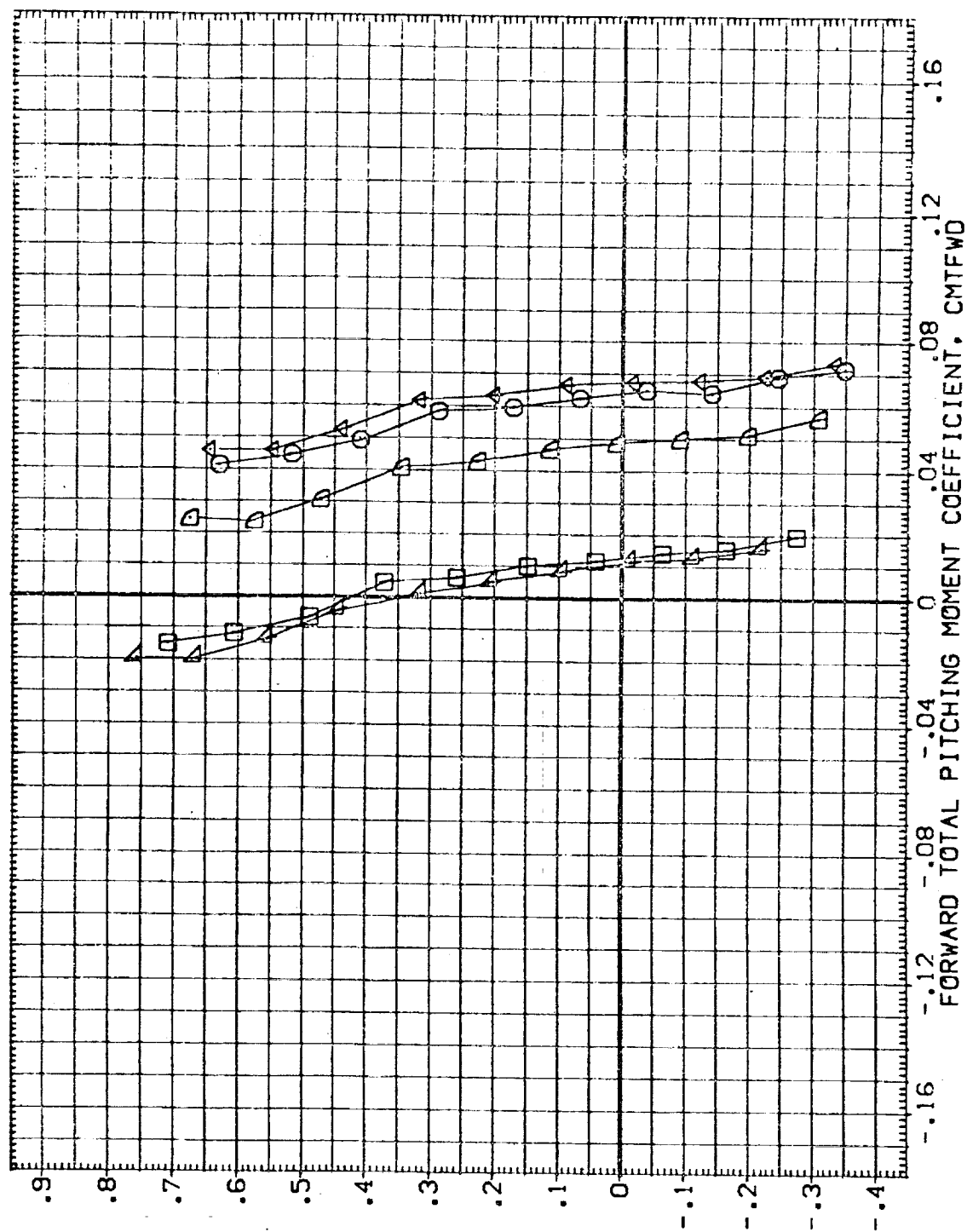


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    ARC 66-709 CAS9 0A11A-(N24 R5 V8)-STRUT+DUM STING

(GER005)    DATA NOT AVAILABLE

(GER006)    DATA NOT AVAILABLE

(GER012)    ARC 66-709 CAS9 0A11A-(R5 V8)-STRUT

(GER014)    DATA NOT AVAILABLE

(GER015)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    .000    16.300

.000    .000    .000

.000    .000    .000

.000    .000    -11.700

.000    .000    16.300

.000    .000    .000

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

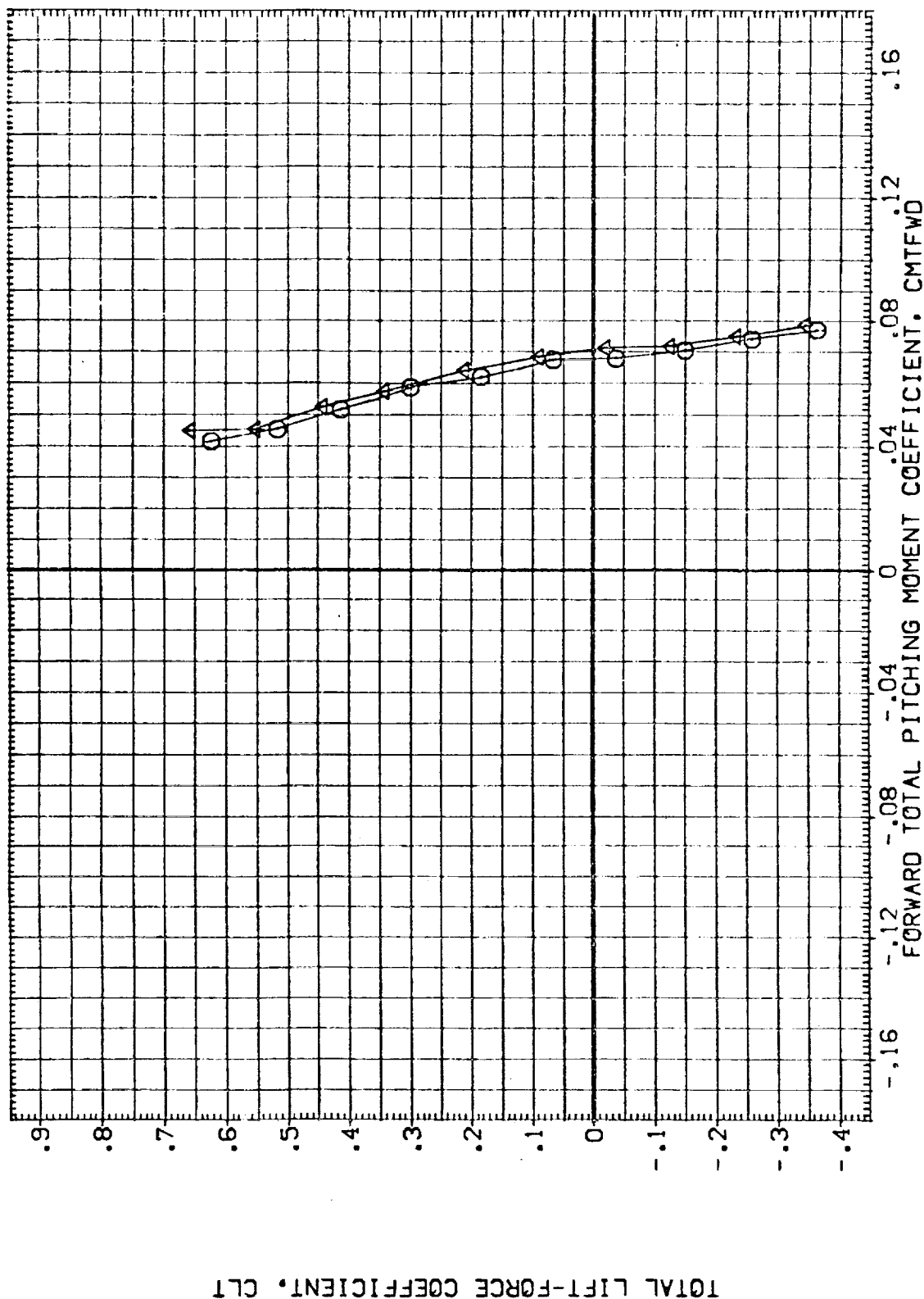


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

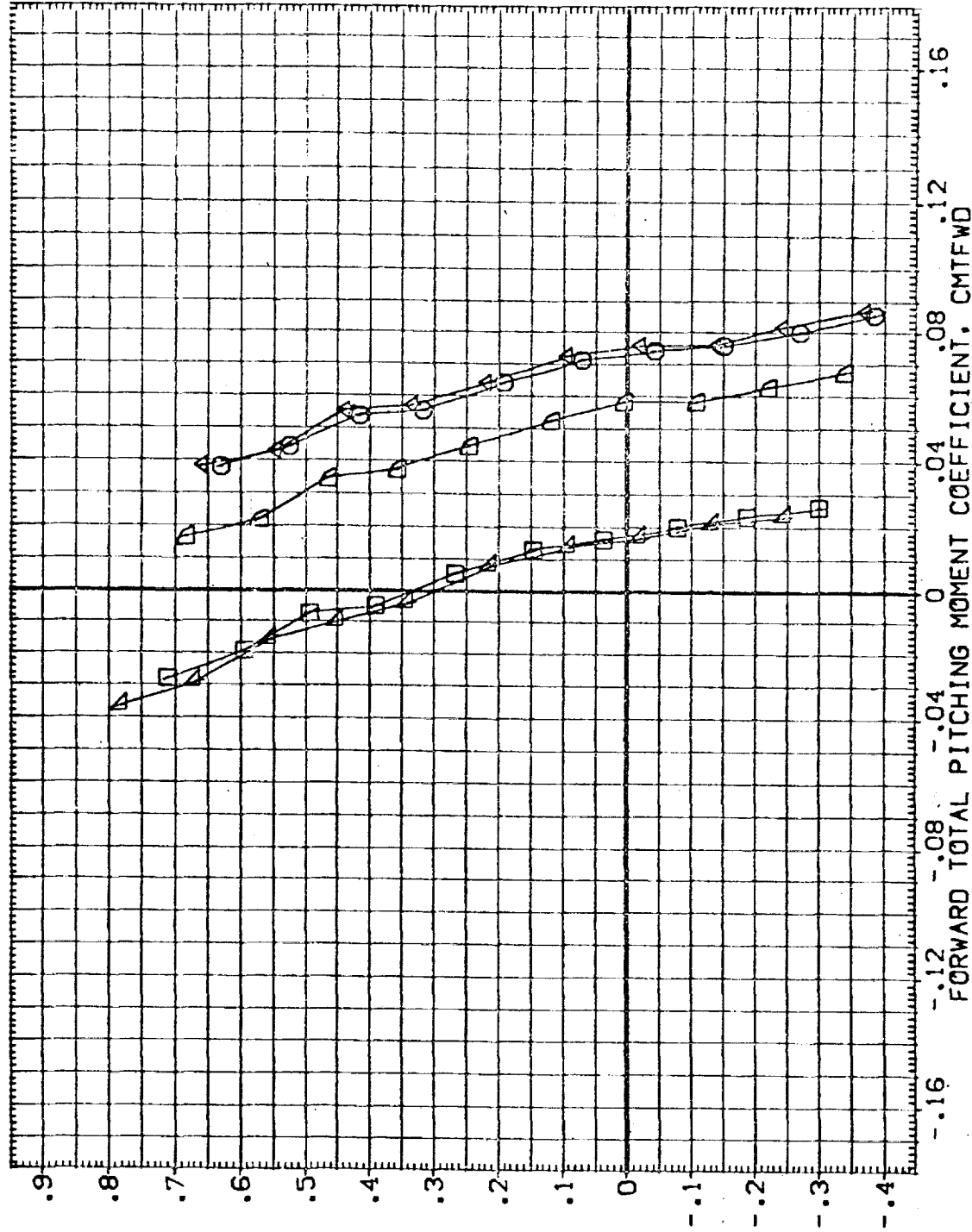


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL  
 (GE001)  
 (GE005)  
 (GE006)  
 (GE012)  
 (GE014)  
 (GE015)

CONFIGURATION DESCRIPTION  
 ARC 66-709 D459 DAI1A-(N24 R5 V8)+STRUT+DUM STNG  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 ARC 66-709 D459 DAI1A-(R5 V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

ELEVON  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

BOFLAP  
 -11.700  
 16.300  
 .000  
 -11.700  
 16.300  
 .000

REFERENCE INFORMATION  
 SREF 6053 SQ.FT.  
 LREF 5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6755 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

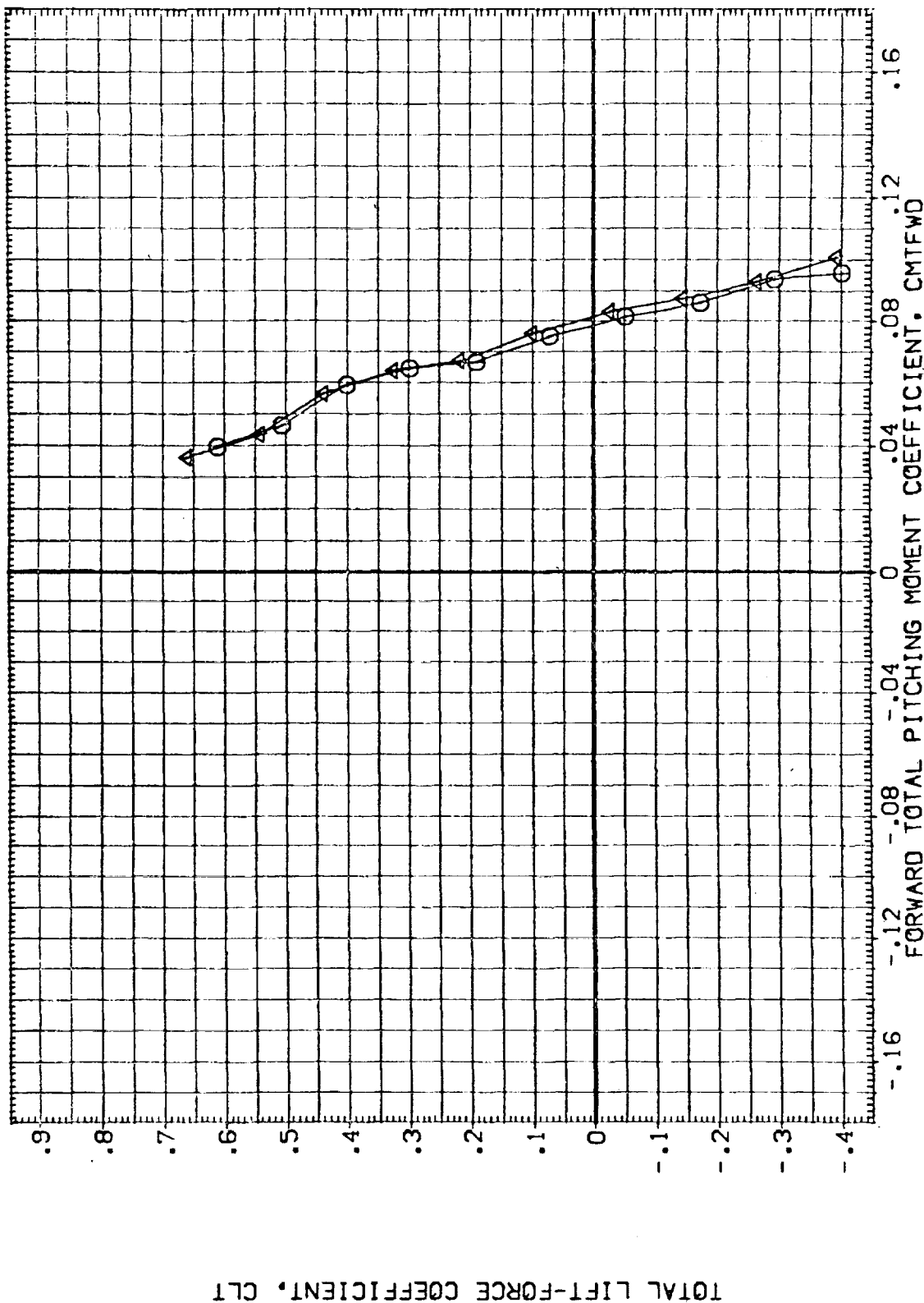


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF 50.53 SO.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF 59.35 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

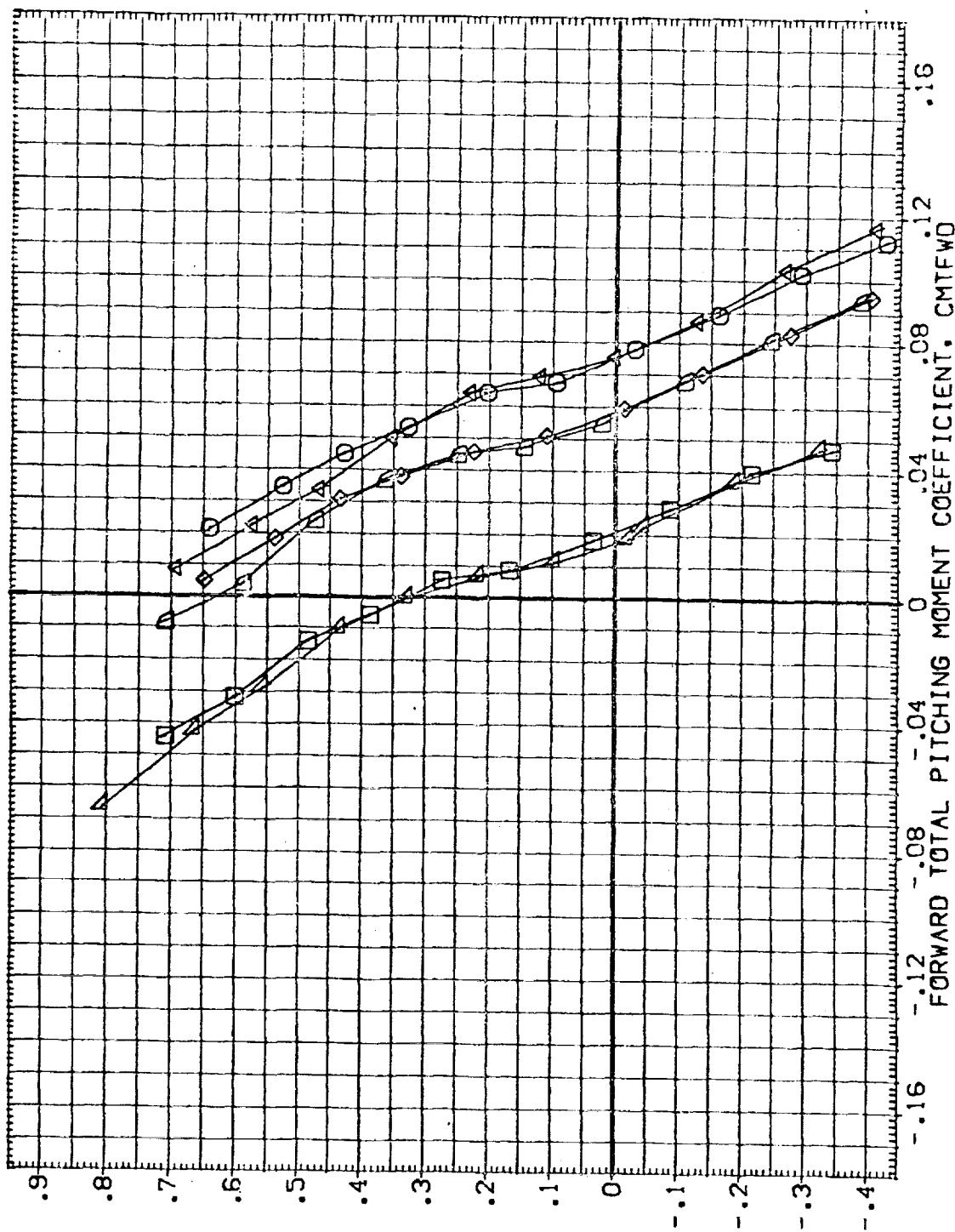


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL  
 (GER001)  
 (GER005)  
 (GER006)  
 (GER012)  
 (GER014)  
 (GER015)

CONFIGURATION DESCRIPTION  
 ARC 66-709 DASS 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 ARC 66-709 DASS 0A11A-(RS V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

ELEVON  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

BOFLAP  
 -11.700  
 16.300  
 .000  
 -11.700  
 16.300  
 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

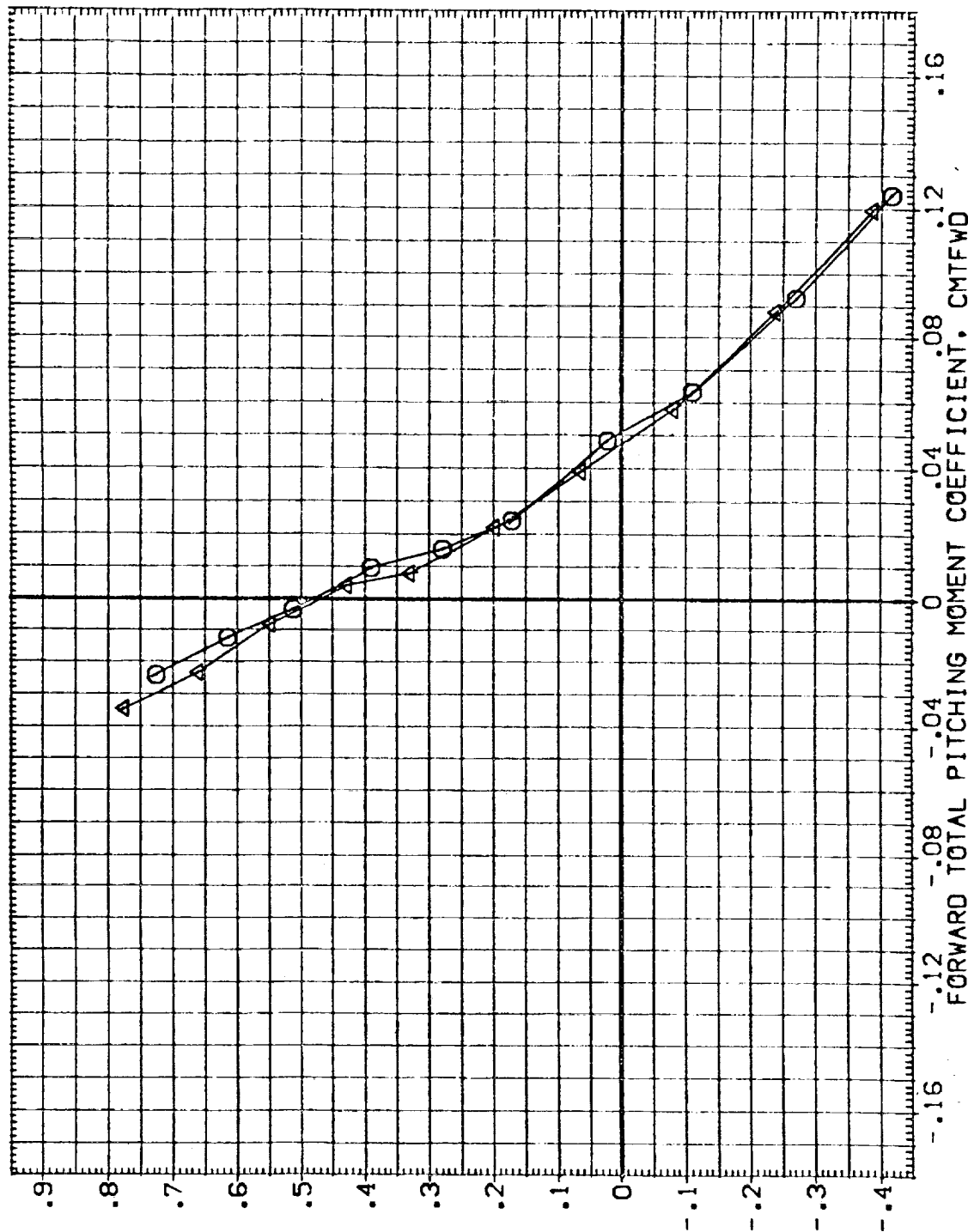


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DAI11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 DAI11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DAS9 DAI11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DAS9 DAI11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 DAI11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 DAI11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

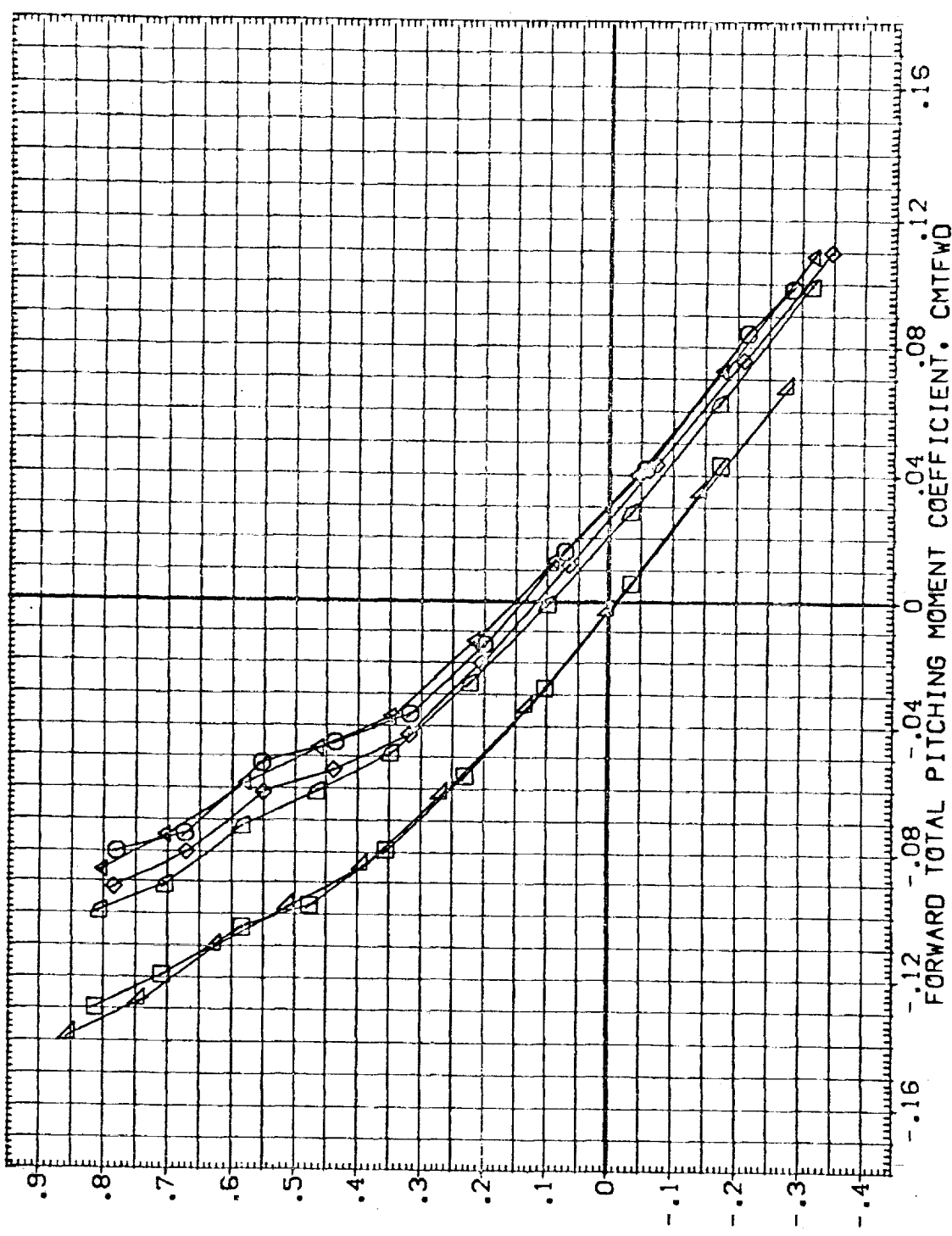


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

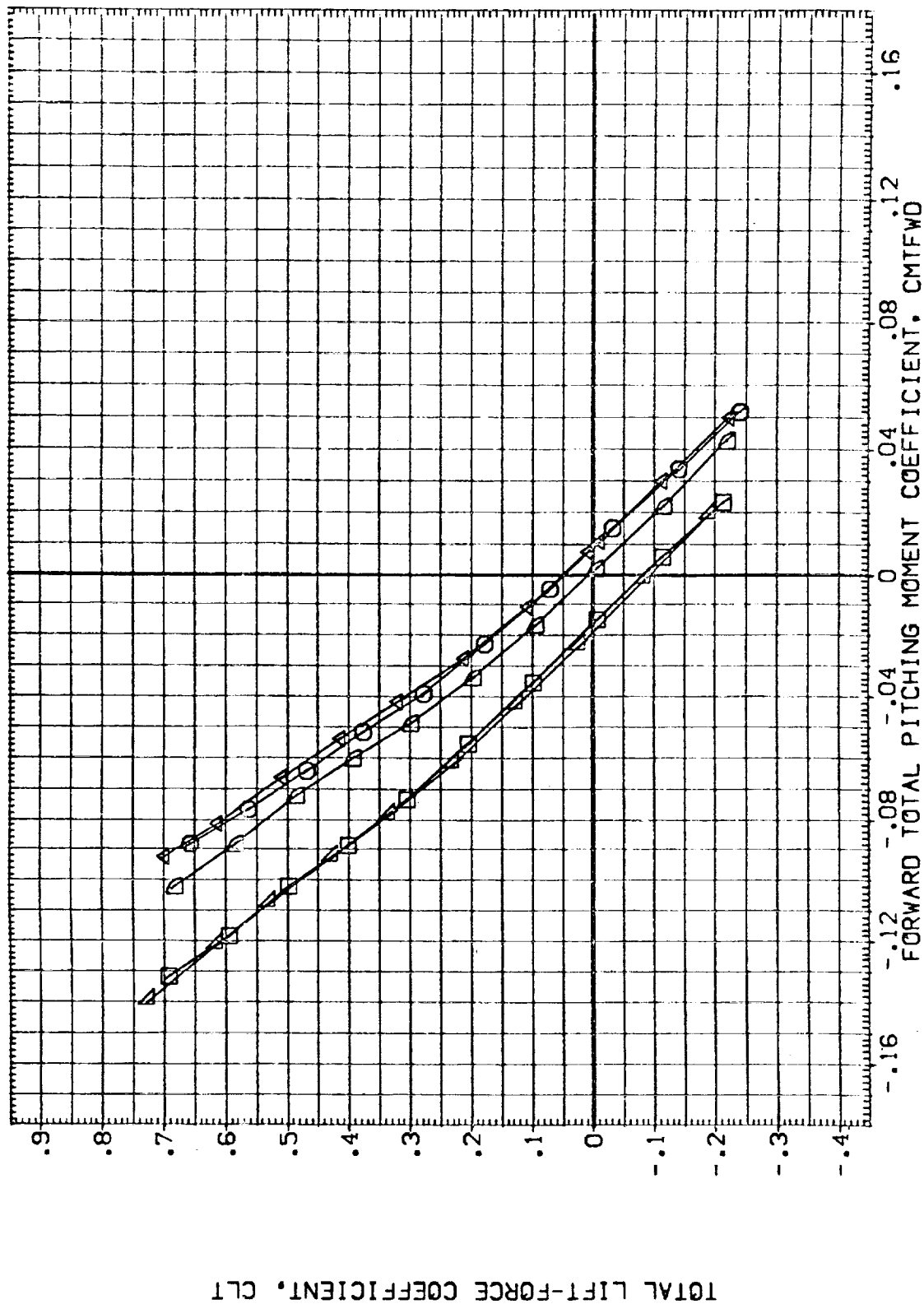


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DA59 DA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 50.FT.
(GER005)	ARC 66-709 DA59 DA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DA59 DA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

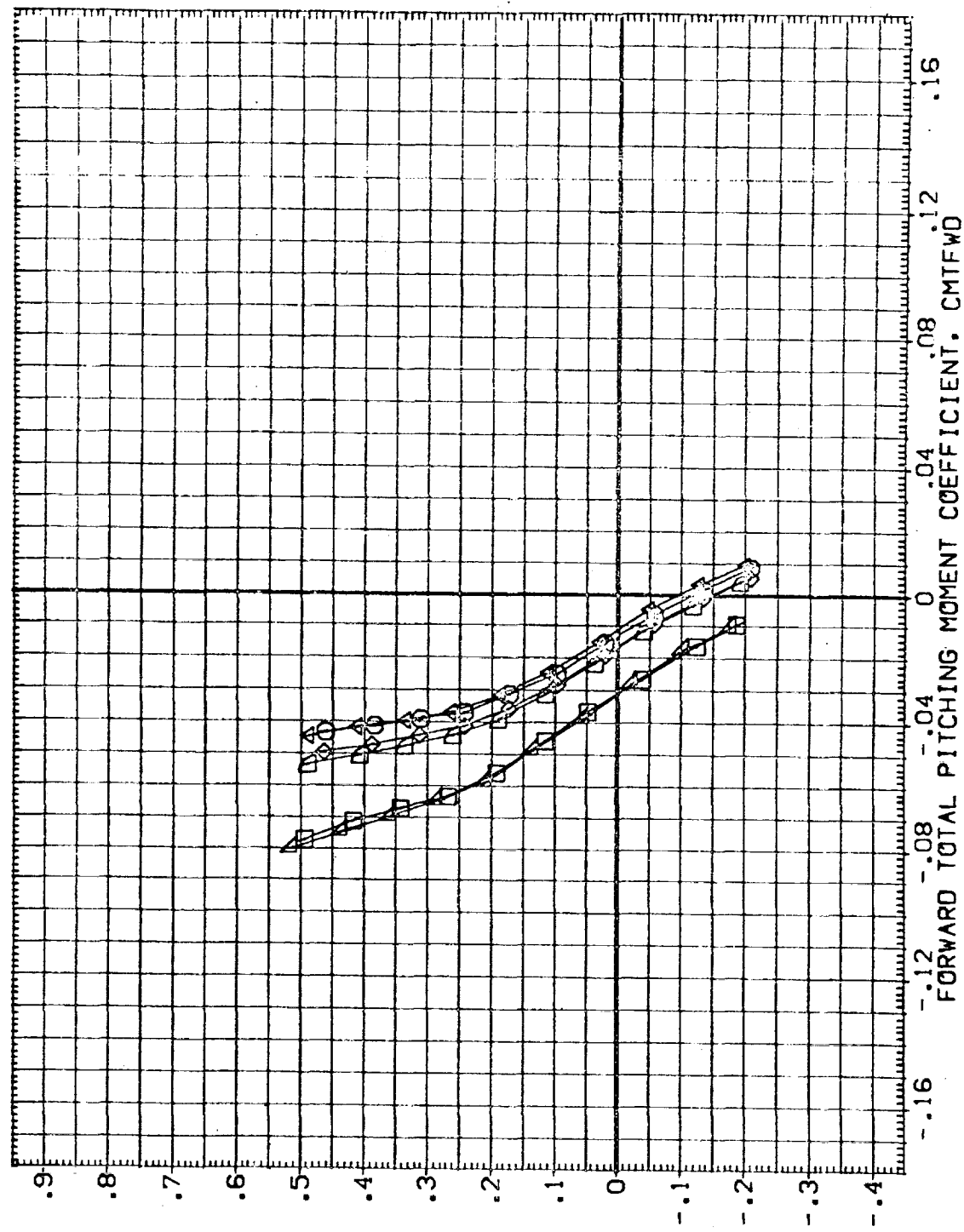


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

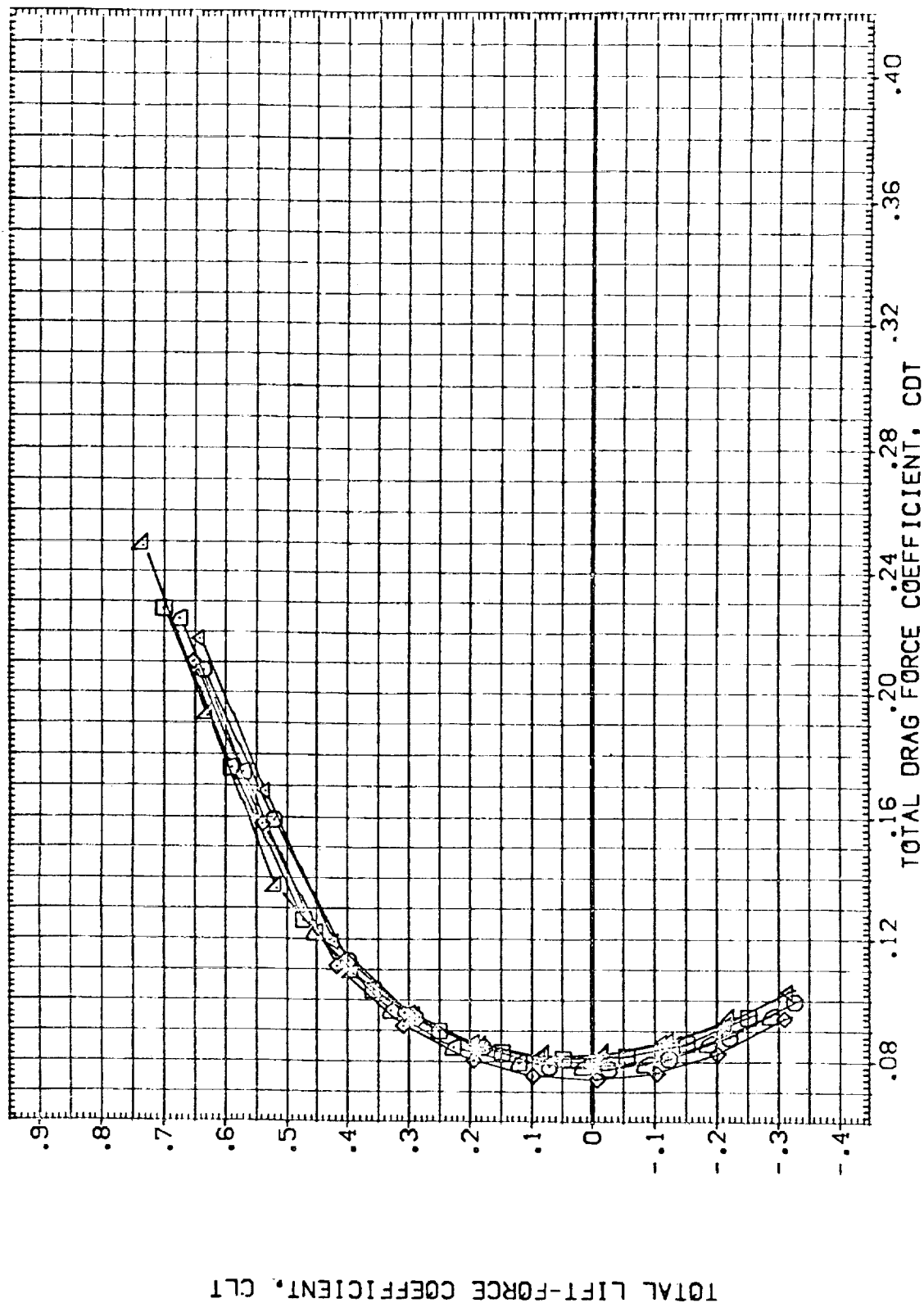


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	.000	SCALE -.3750 IN.

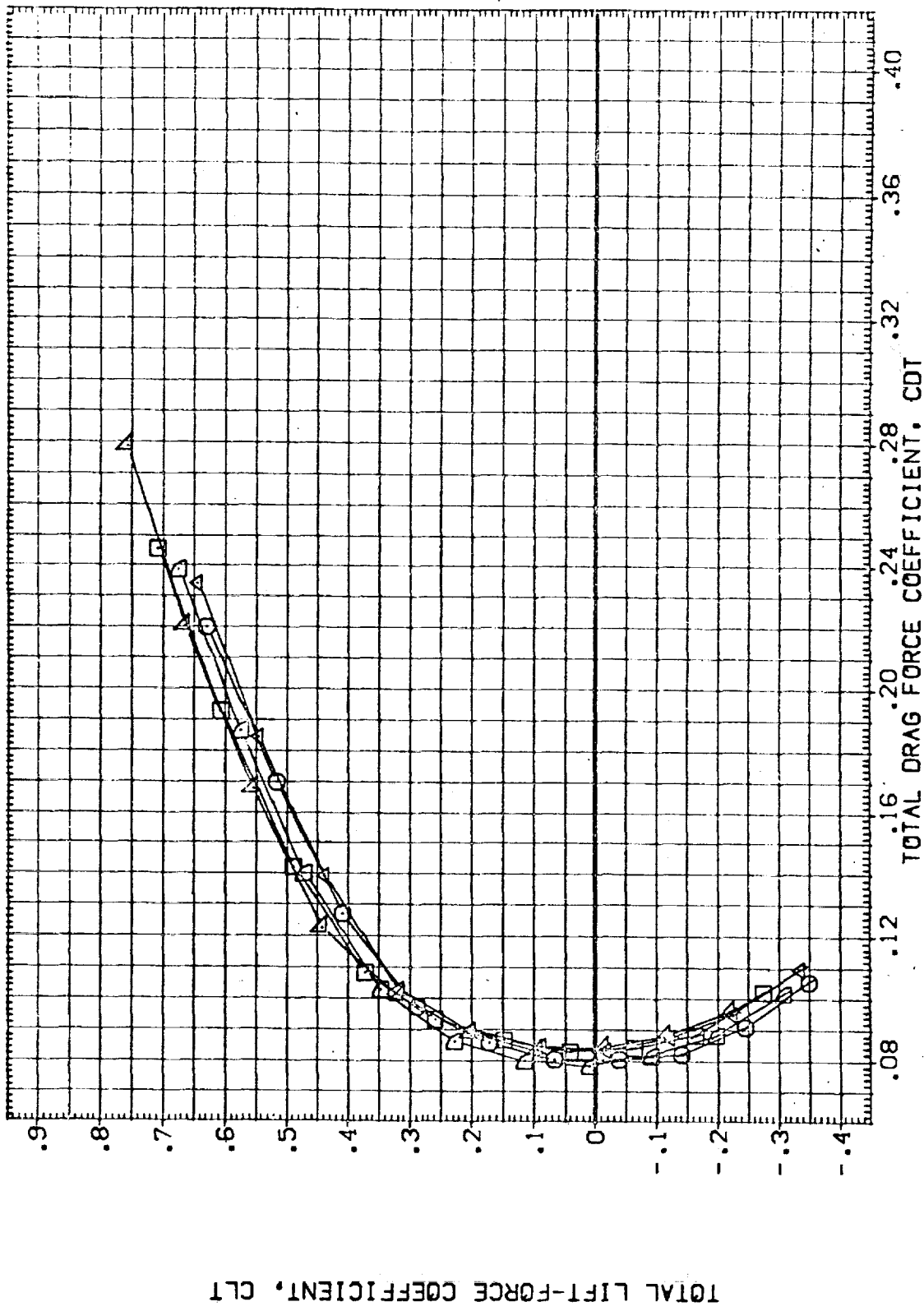


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(GER001)    ARC 66-709 QAS9 Q111A-(N24 RS V81)-STRUT+DUM STAG

(GER005)    DATA NOT AVAILABLE

(GER006)    DATA NOT AVAILABLE

(GER012)    ARC 66-709 QAS9 Q111A-(RS V81)-STRUT

(GER014)    DATA NOT AVAILABLE

(GER015)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    .000    16.300

.000    .000    .000

.000    .000    -11.700

.000    .000    16.300

.000    .000    .000

REFERENCE INFORMATION

SREF    50.53    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

ZMRP    .0000    IN.

SCALE    -.3750    IN.

          .0150

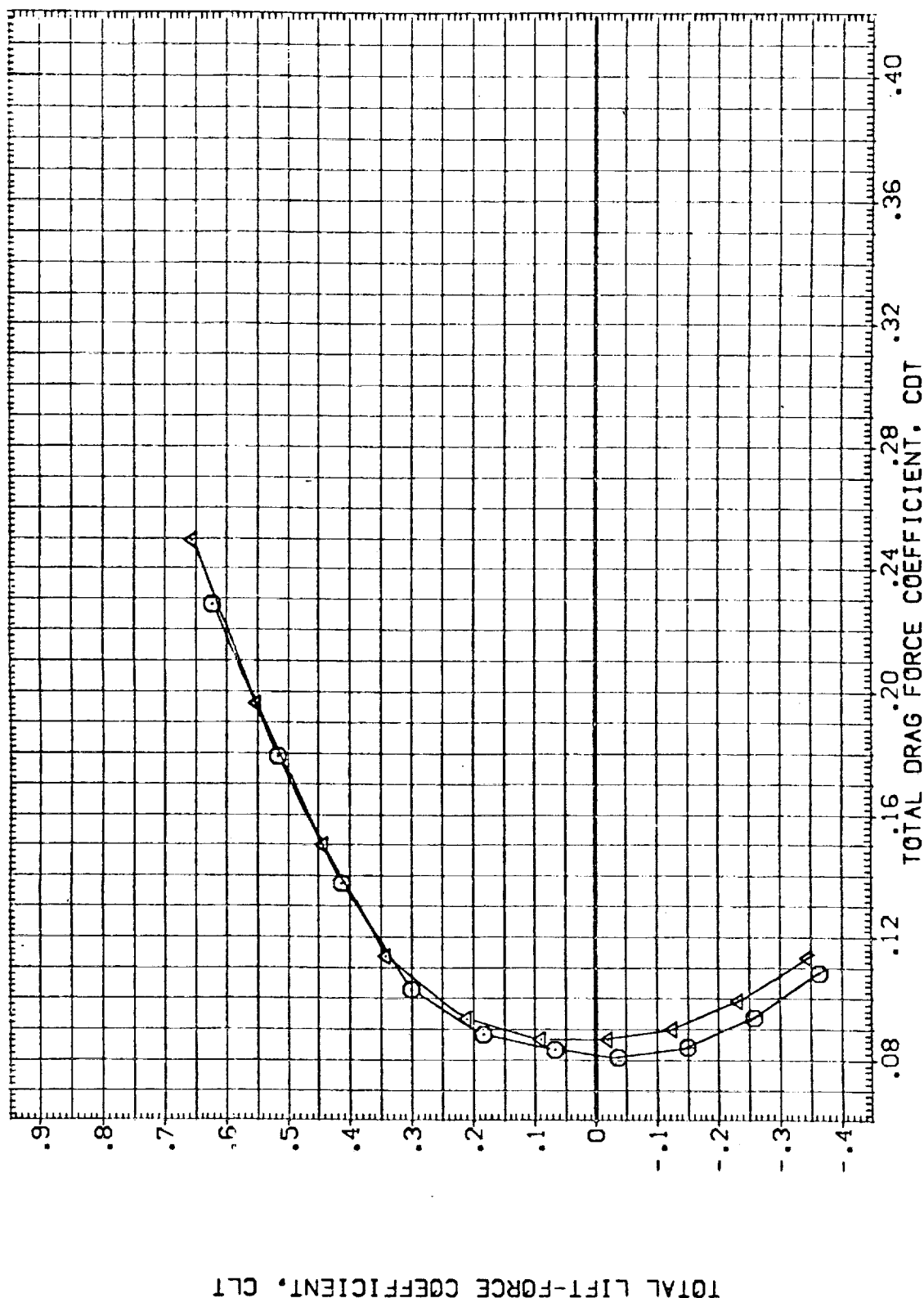


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0AS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0AS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0AS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0AS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0AS9 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

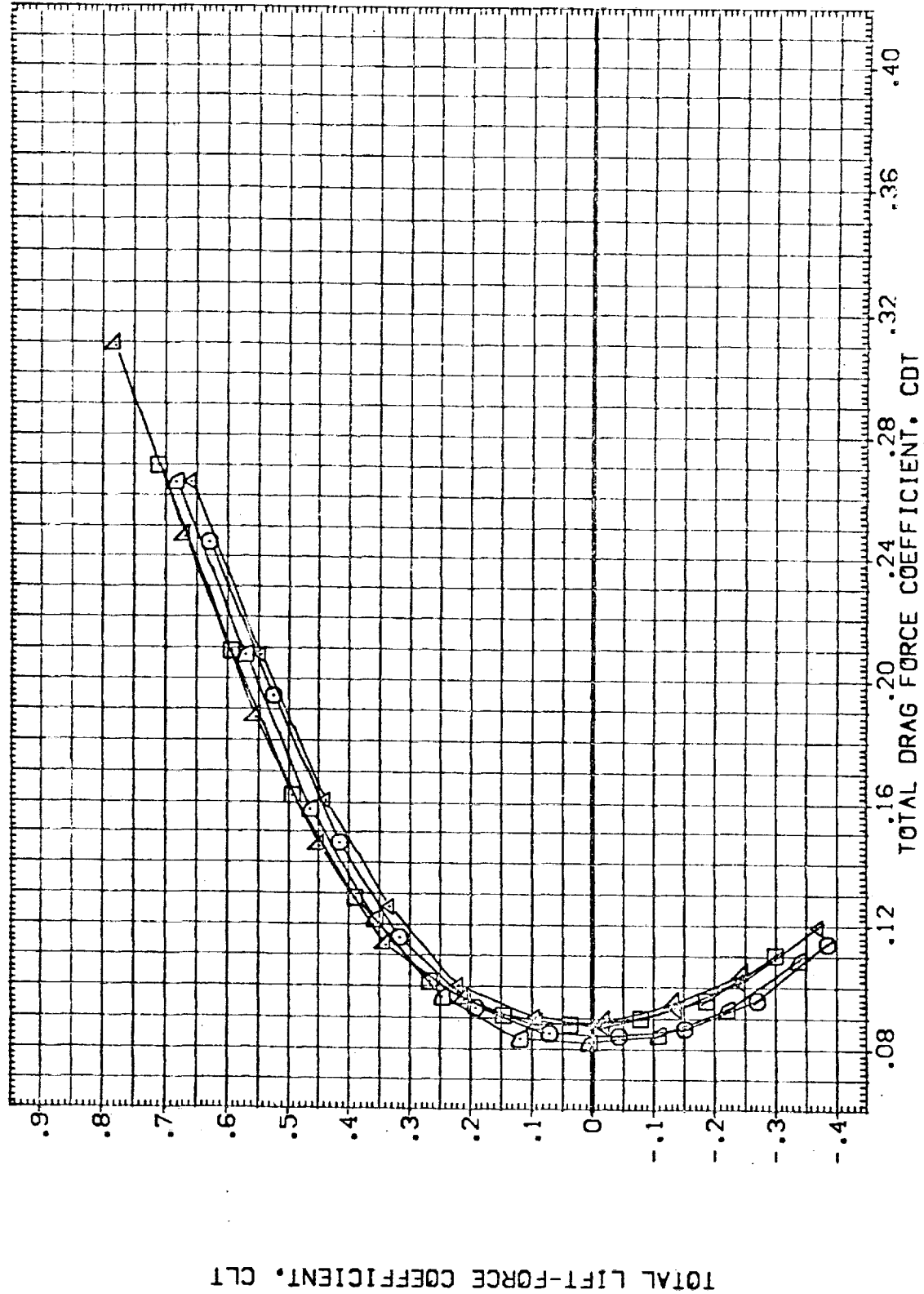


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DA59 DA11A-(N24 RS VB)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 DA59 DA11A-(RS VB)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

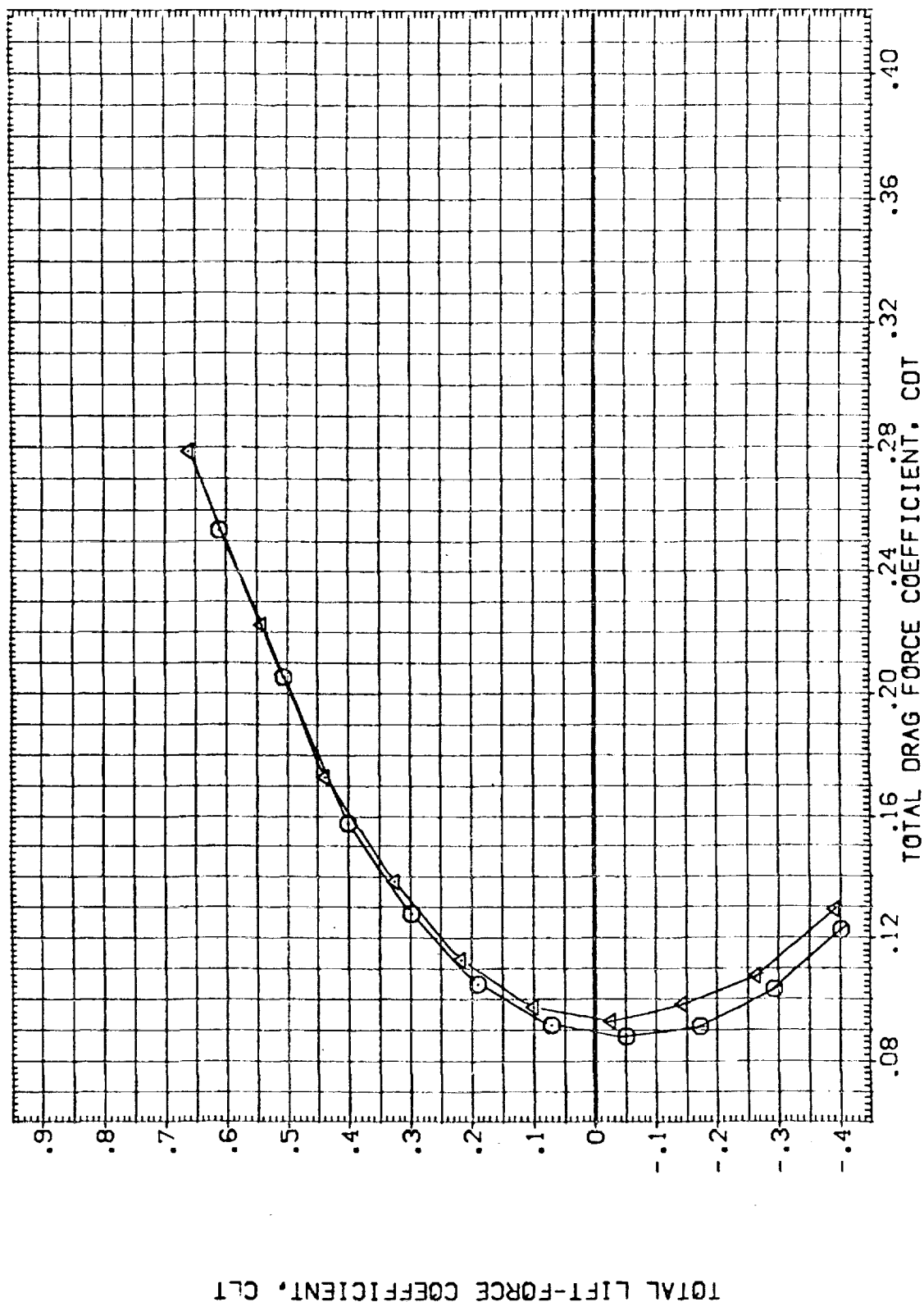


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6755 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.
					.0150

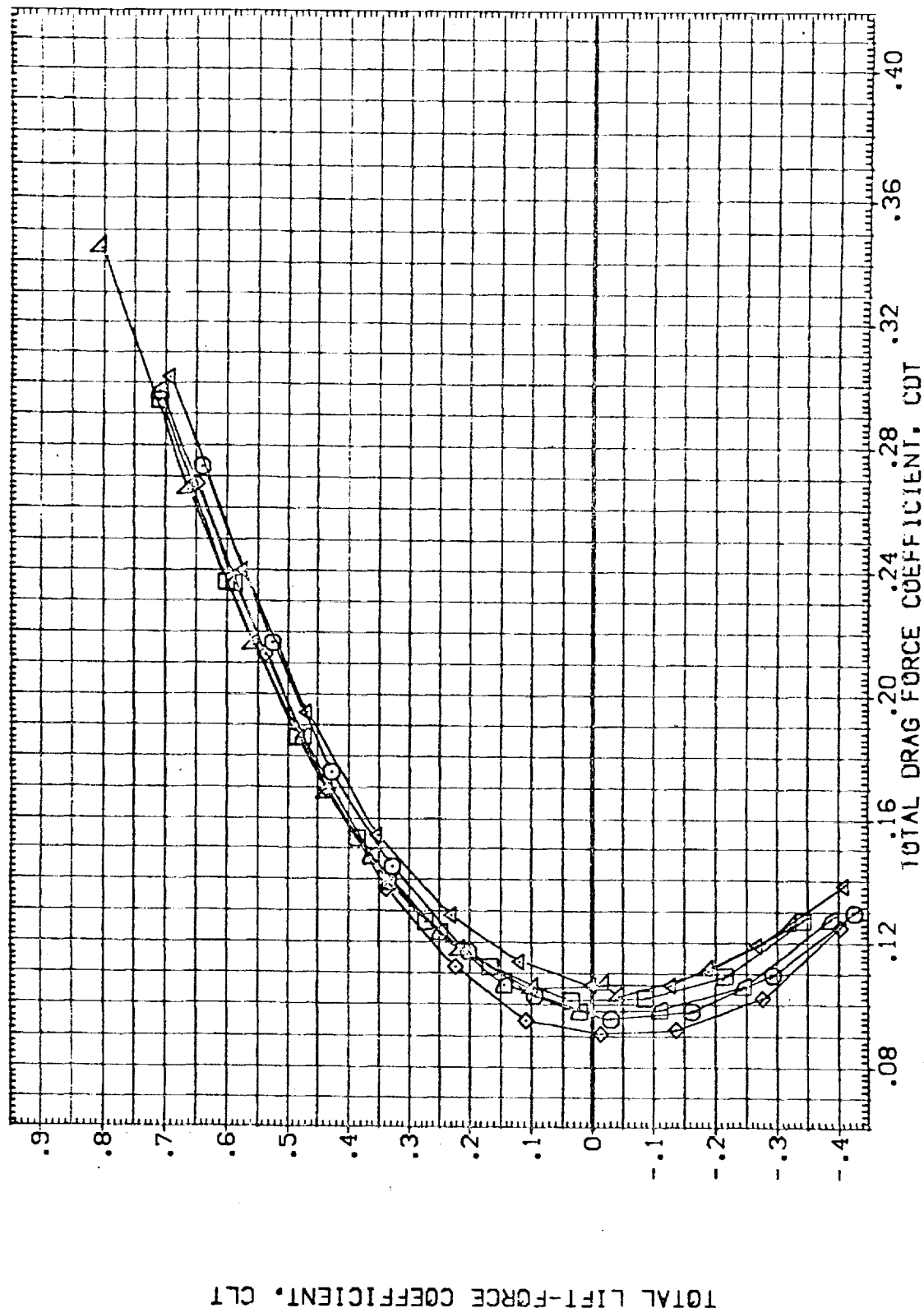


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA DE 1111000  
 (GER001)  
 (GER005)  
 (GER006)  
 (GER012)  
 (GER014)  
 (GER015)

ARC 66-709 0459 0411A-(N24 R5 V8)+STRUT+DUM STNG  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

ARC 66-709 0459 0411A-(R5 V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

ARC 66-709 0459 0411A-(N24 R5 V8)+STRUT+DUM STNG  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

ARC 66-709 0459 0411A-(R5 V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

ARC 66-709 0459 0411A-(R5 V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

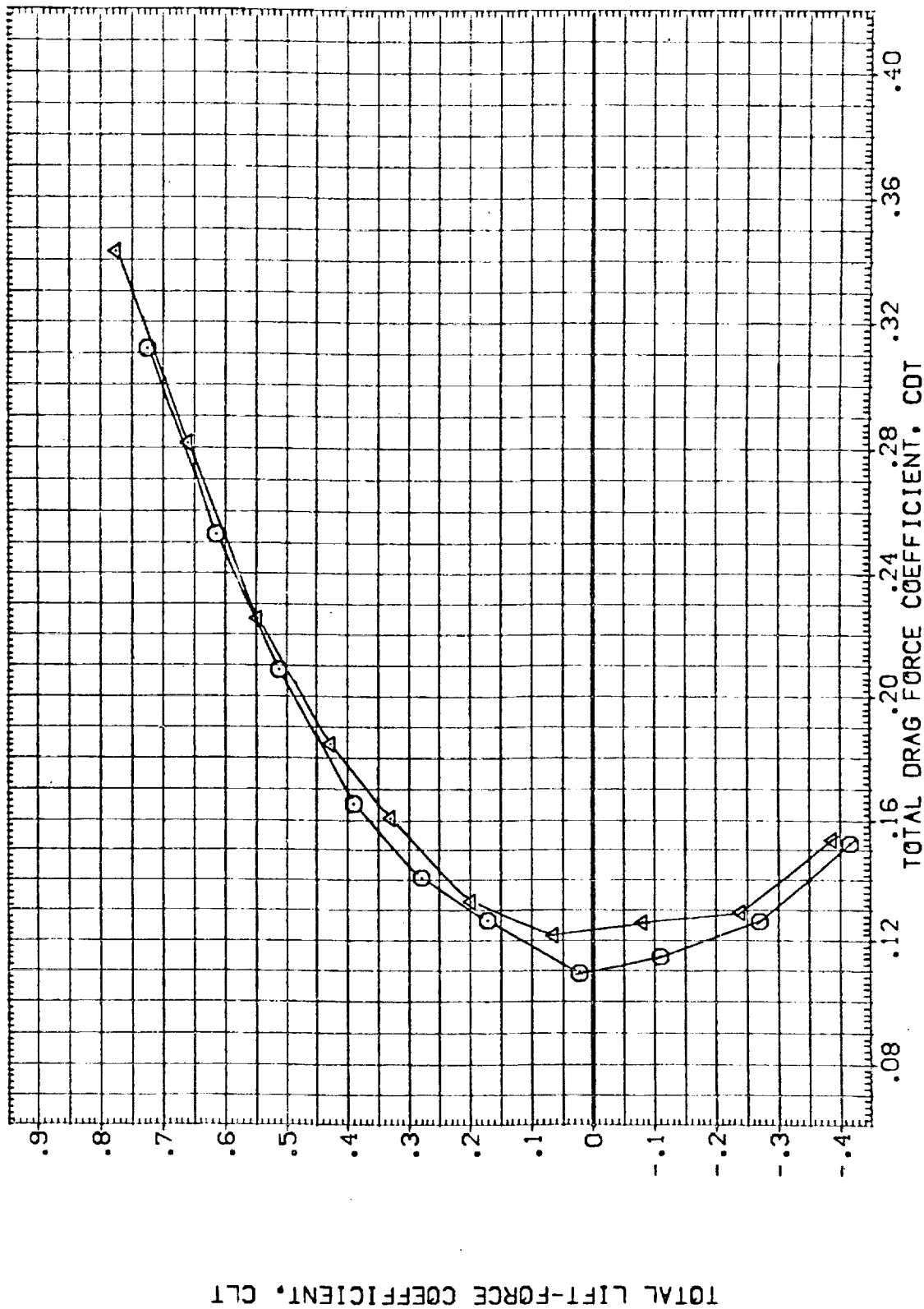


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5936 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

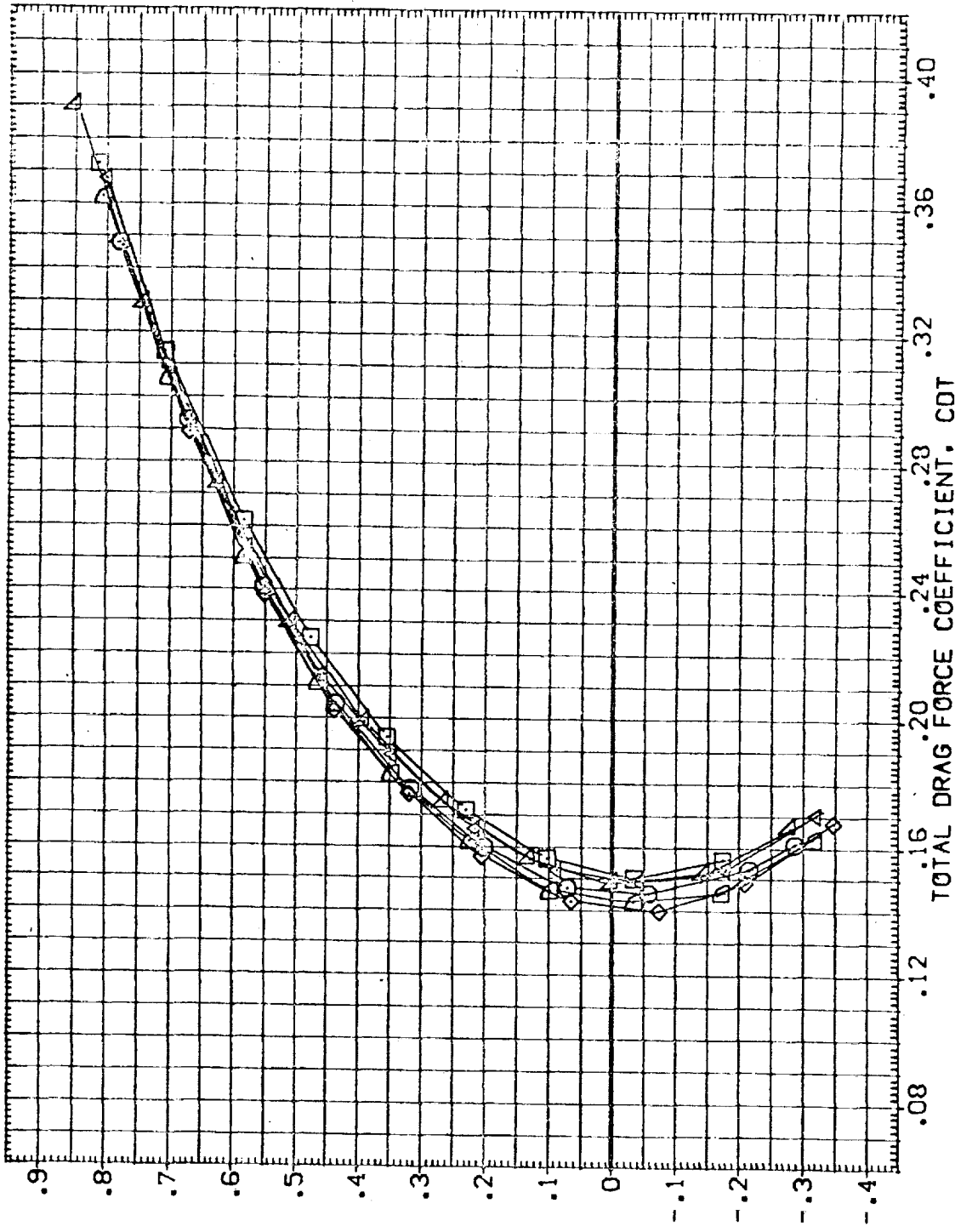


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

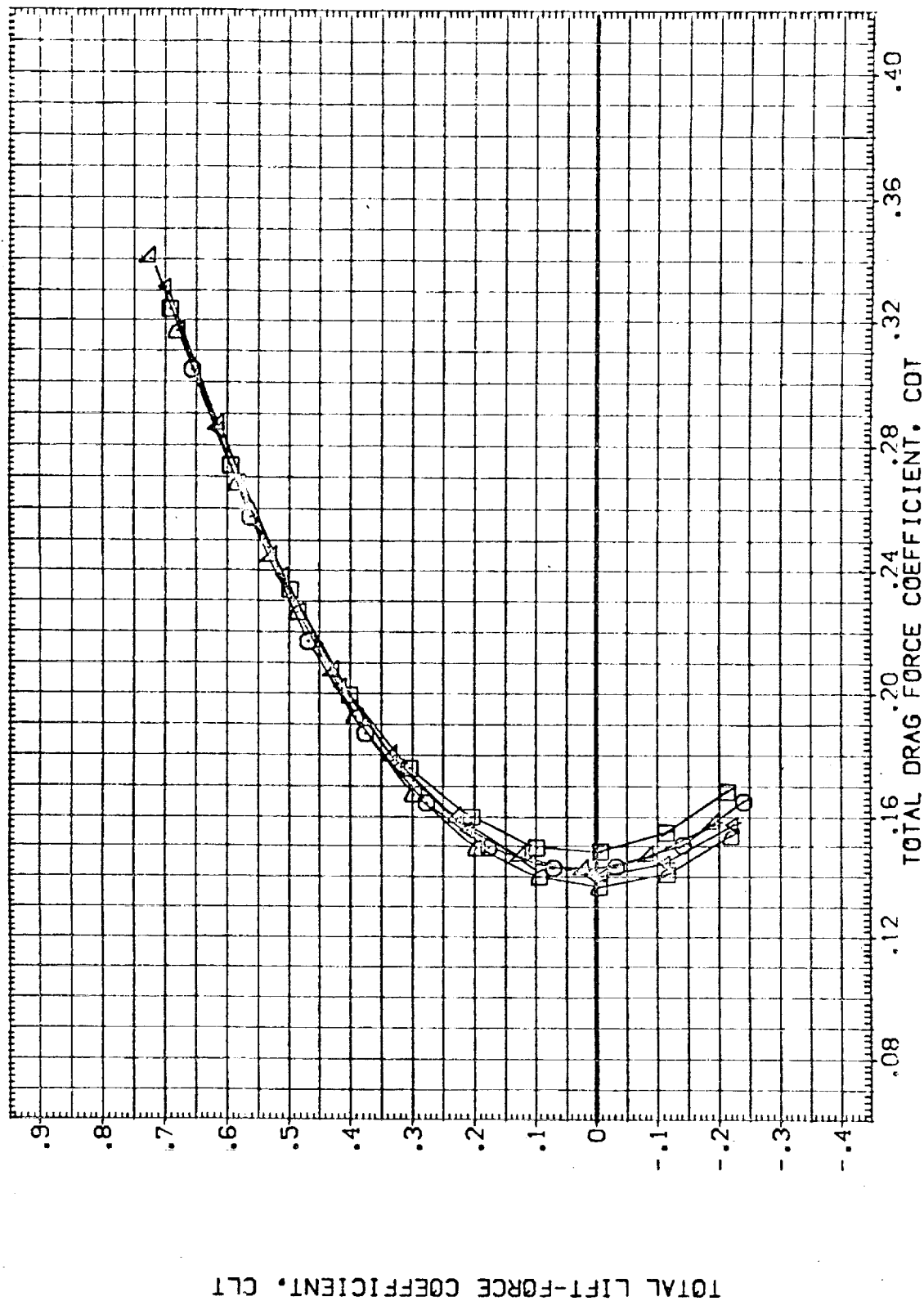


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1) MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP -.3750 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP .0150
					SCALE

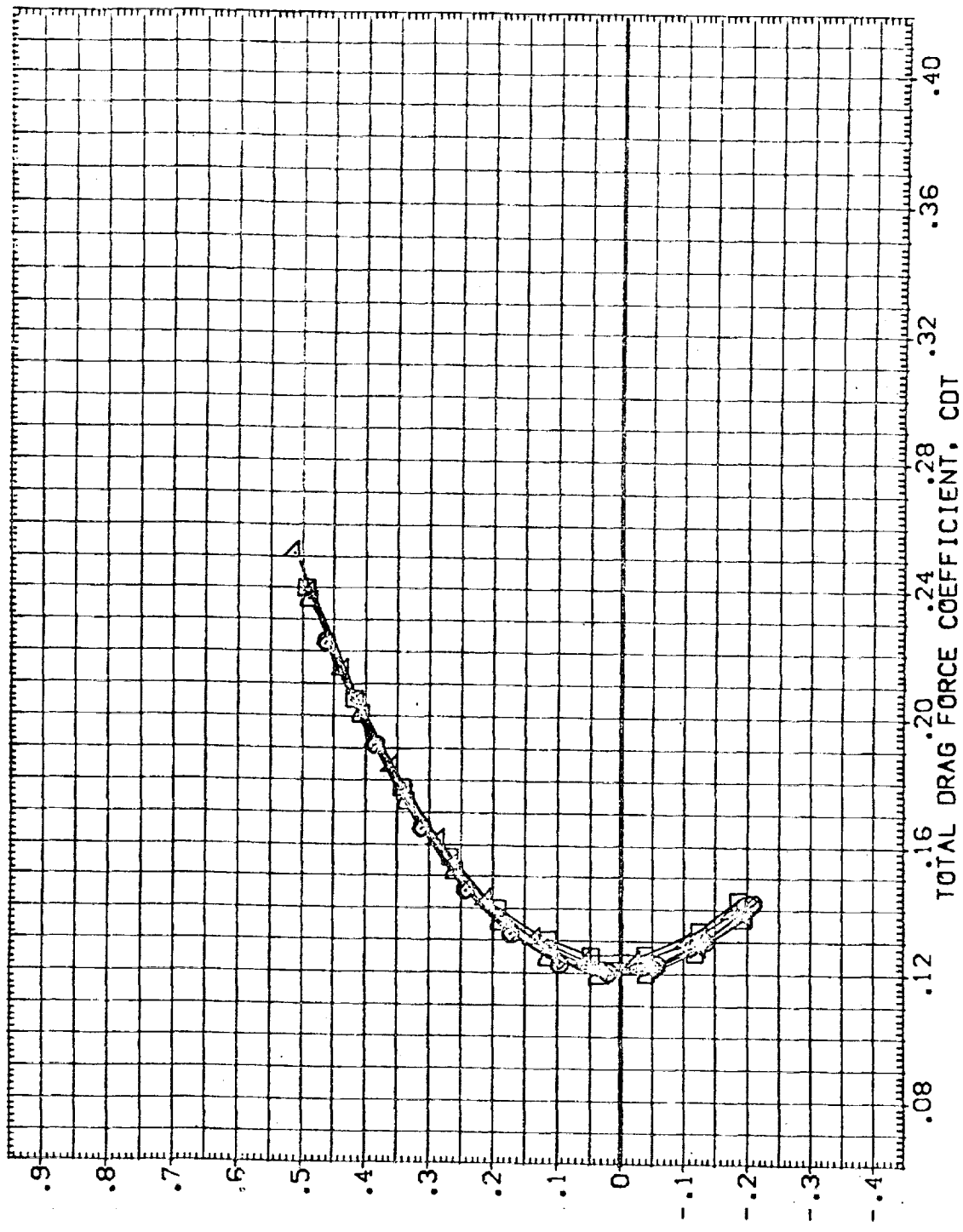
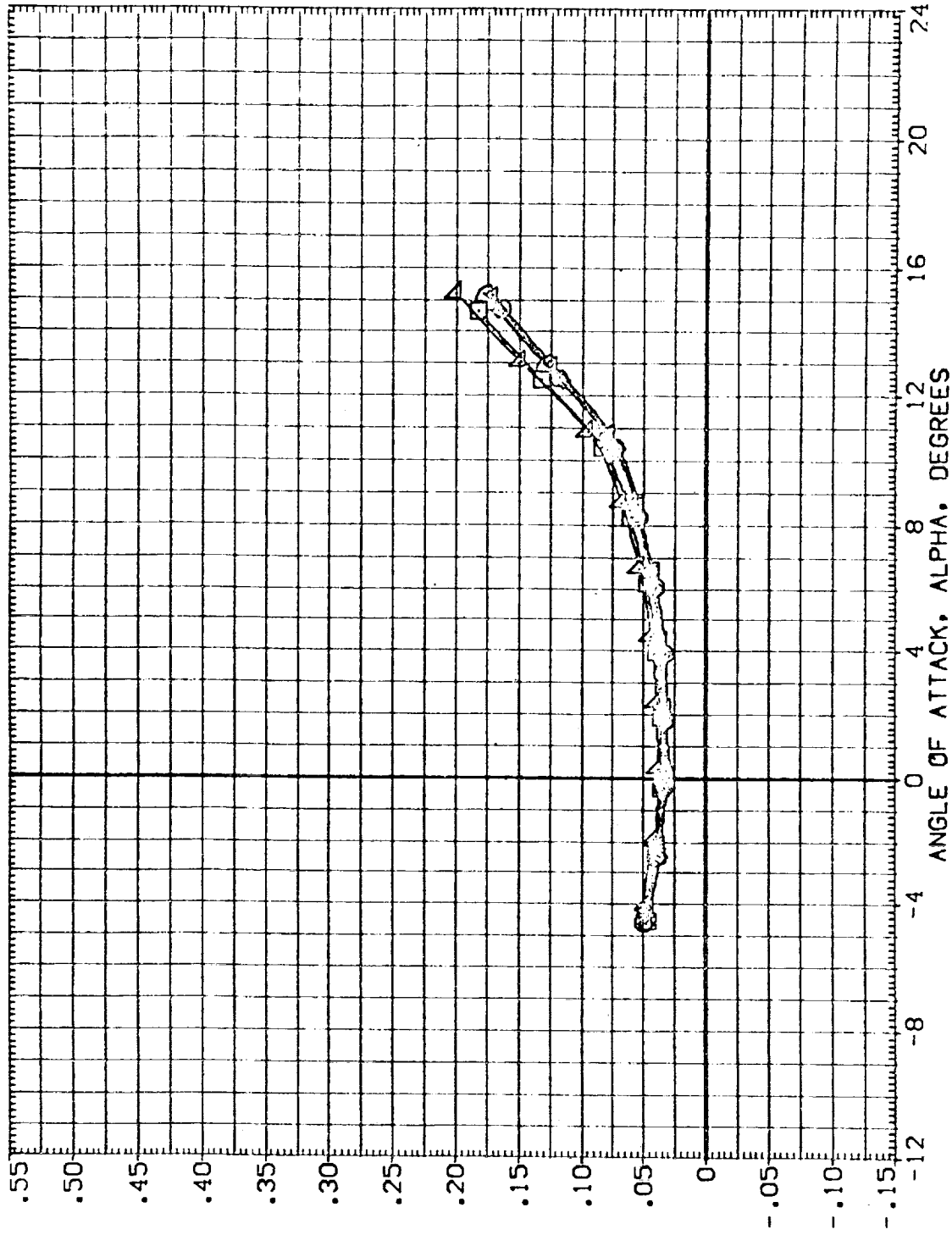


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER008)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

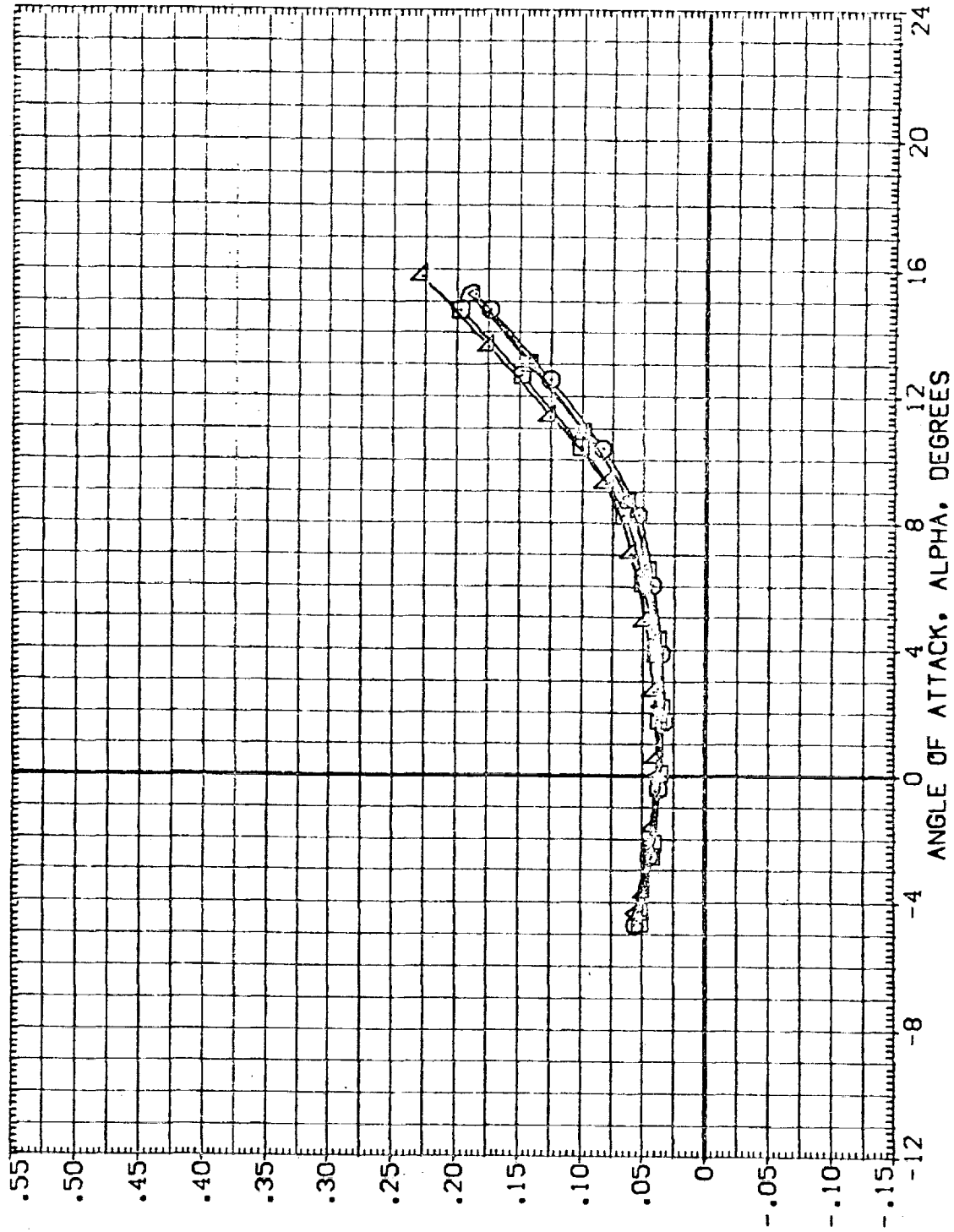


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

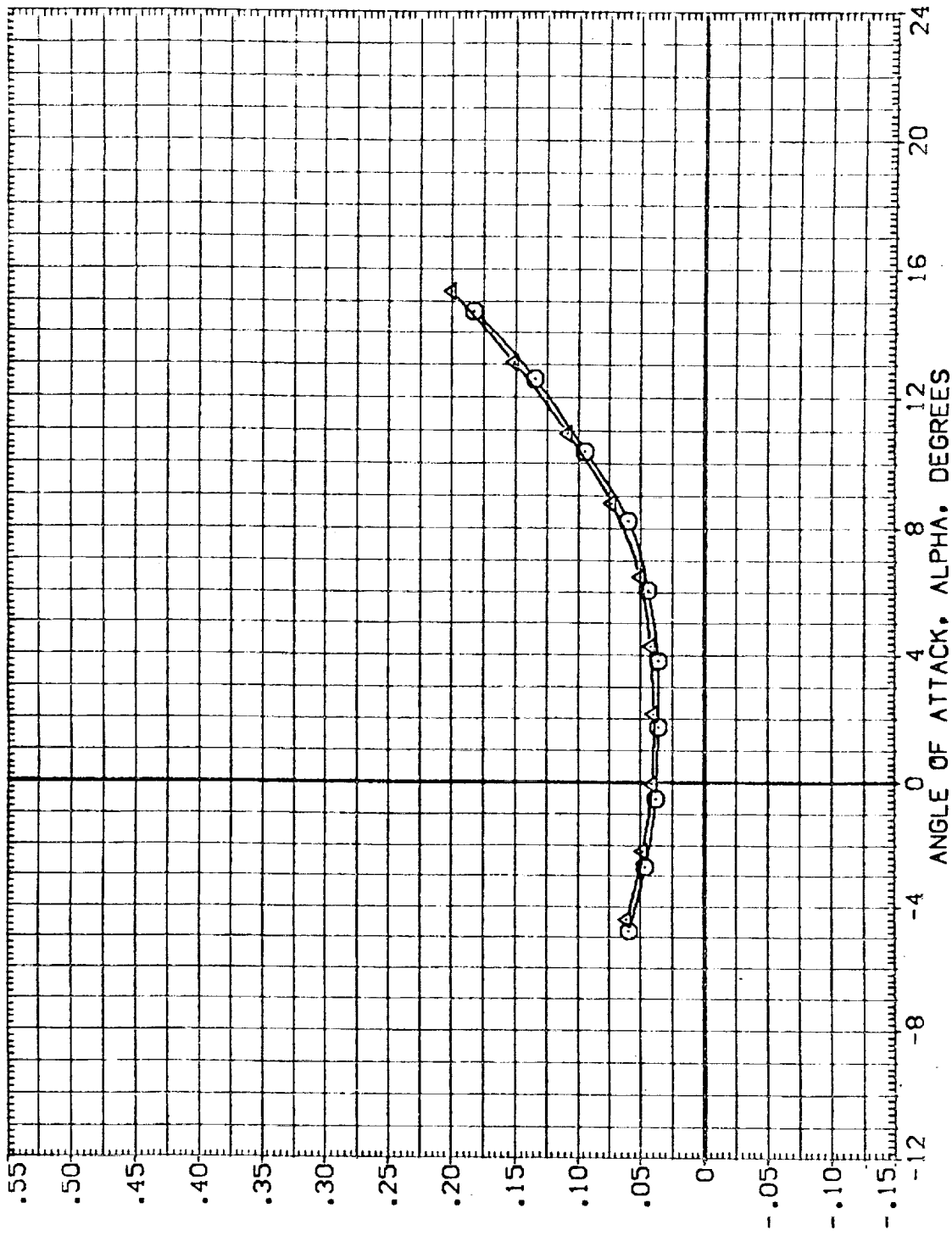


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

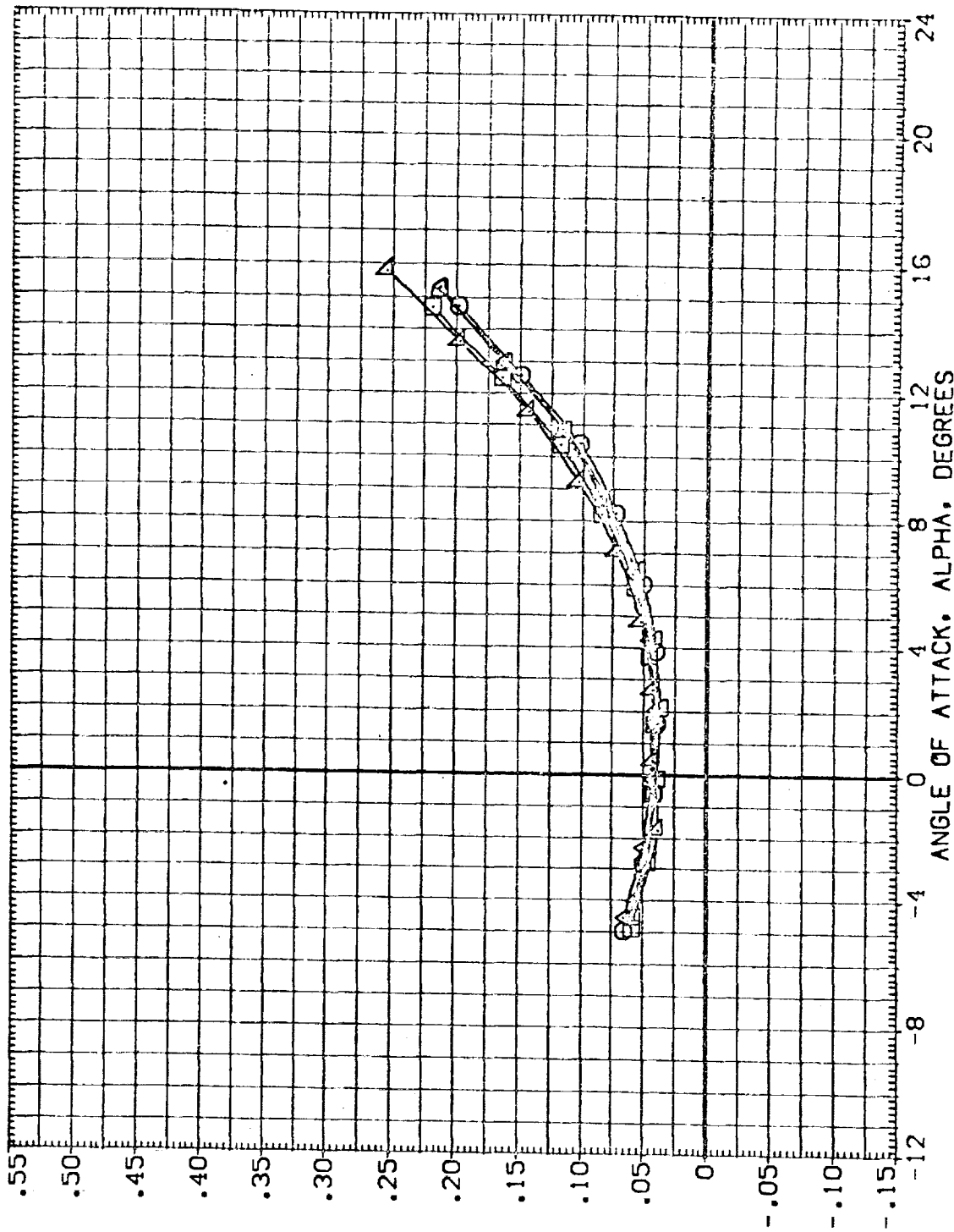


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP
(GER001)	ARC 66-709 QAS9 0A111A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300
(GER006)	DATA NOT AVAILABLE	.000	.000	.000
(GER012)	ARC 66-709 QAS9 0A111A-(RS V8)+STRUT	.000	.000	-11.700
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300
(GER015)	DATA NOT AVAILABLE	.000	.000	.000

REFERENCE INFORMATION

REFERENCE	IN.	FT.	IN.
SREF	.6353	50.00	FT.
LREF	.5935	50.00	FT.
BREF	1.1710	50.00	FT.
XMRP	12.6255	50.00	IN.
YMRP	.0000	50.00	IN.
ZMRP	-.3750	50.00	IN.
SCALE	.0150		



FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (GER001) ARC 66-709 QAS9 0A11A-(N24 RS V81)\*STRUT+DUM STING  
 (GER005) ARC 66-709 QAS9 0A11A-(N24 RS V81)\*STRUT+DUM STING  
 (GER006) ARC 66-709 QAS9 0A11A-(N24 RS V81)\*STRUT+DUM STING  
 (GER012) ARC 66-709 QAS9 0A11A-(RS V81)\*STRUT  
 (GER014) ARC 66-709 QAS9 0A11A-(RS V81)\*STRUT  
 (GER015) ARC 66-709 QAS9 0A11A-(RS V81)\*STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .8053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6755 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

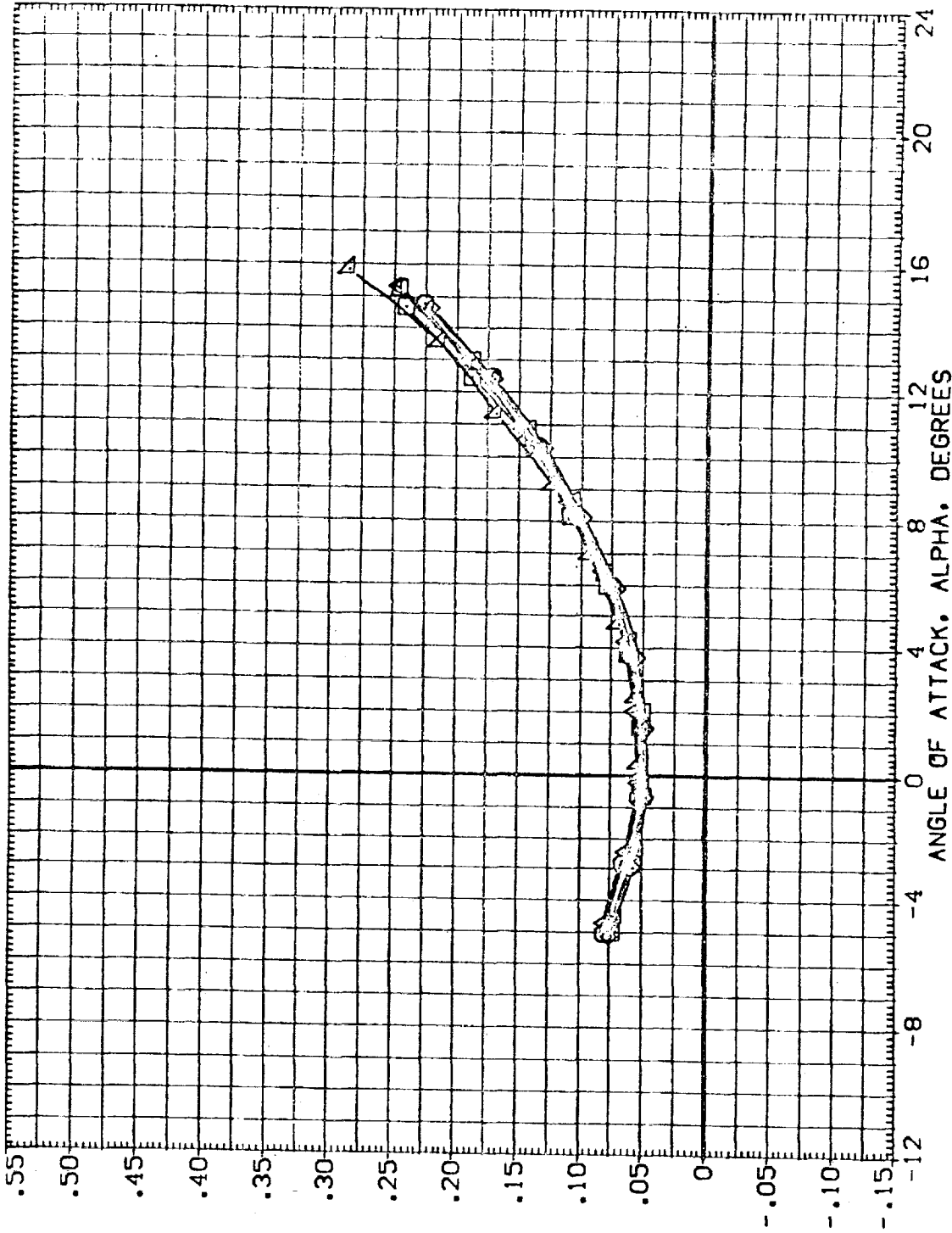


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    80FLAP

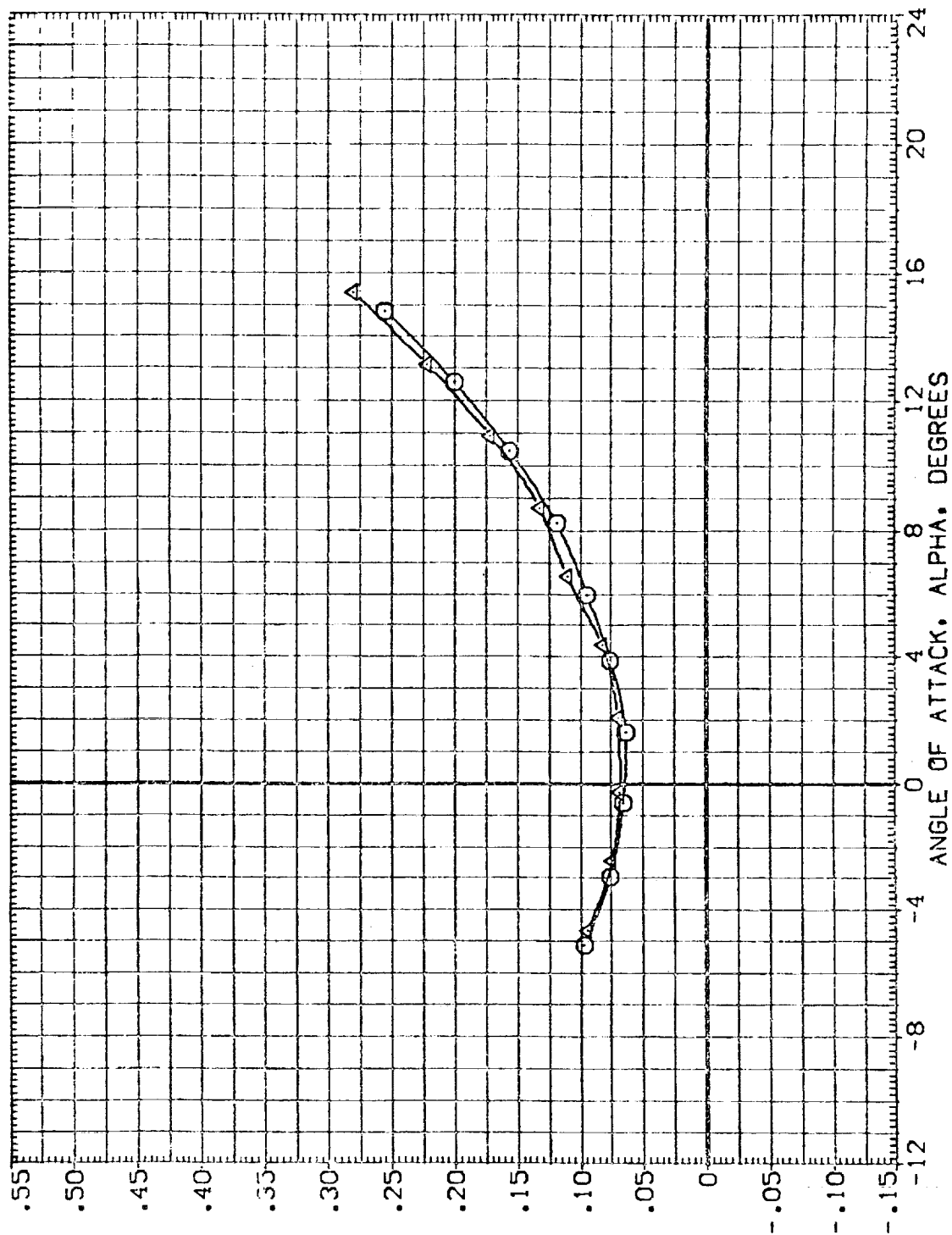
(G)MACH = .95

ARC 66-709 QAS9 Q411A-(N24 RS V8)+STRUT+DUM STAG  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

ARC 66-709 QAS9 Q411A-(RS V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

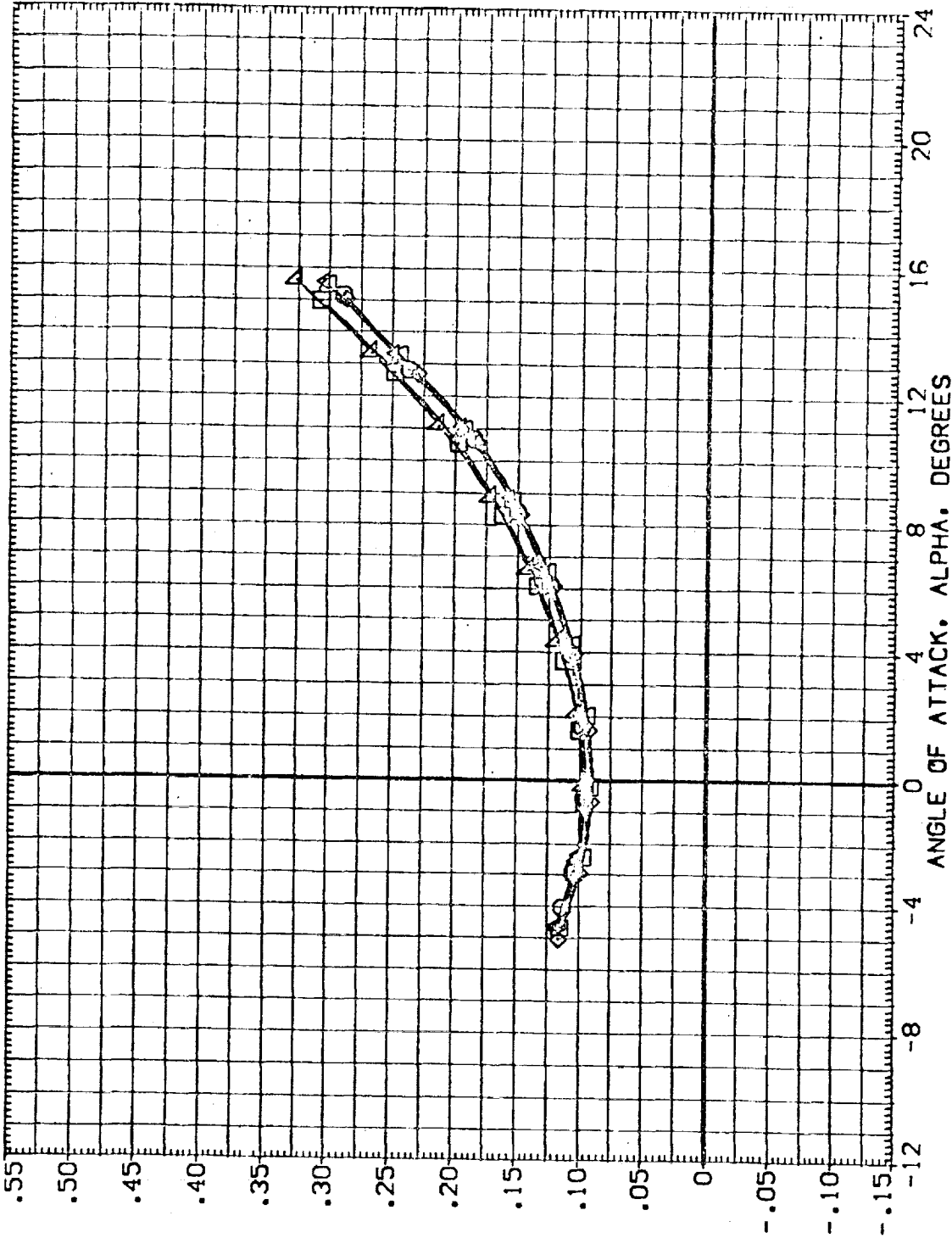


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

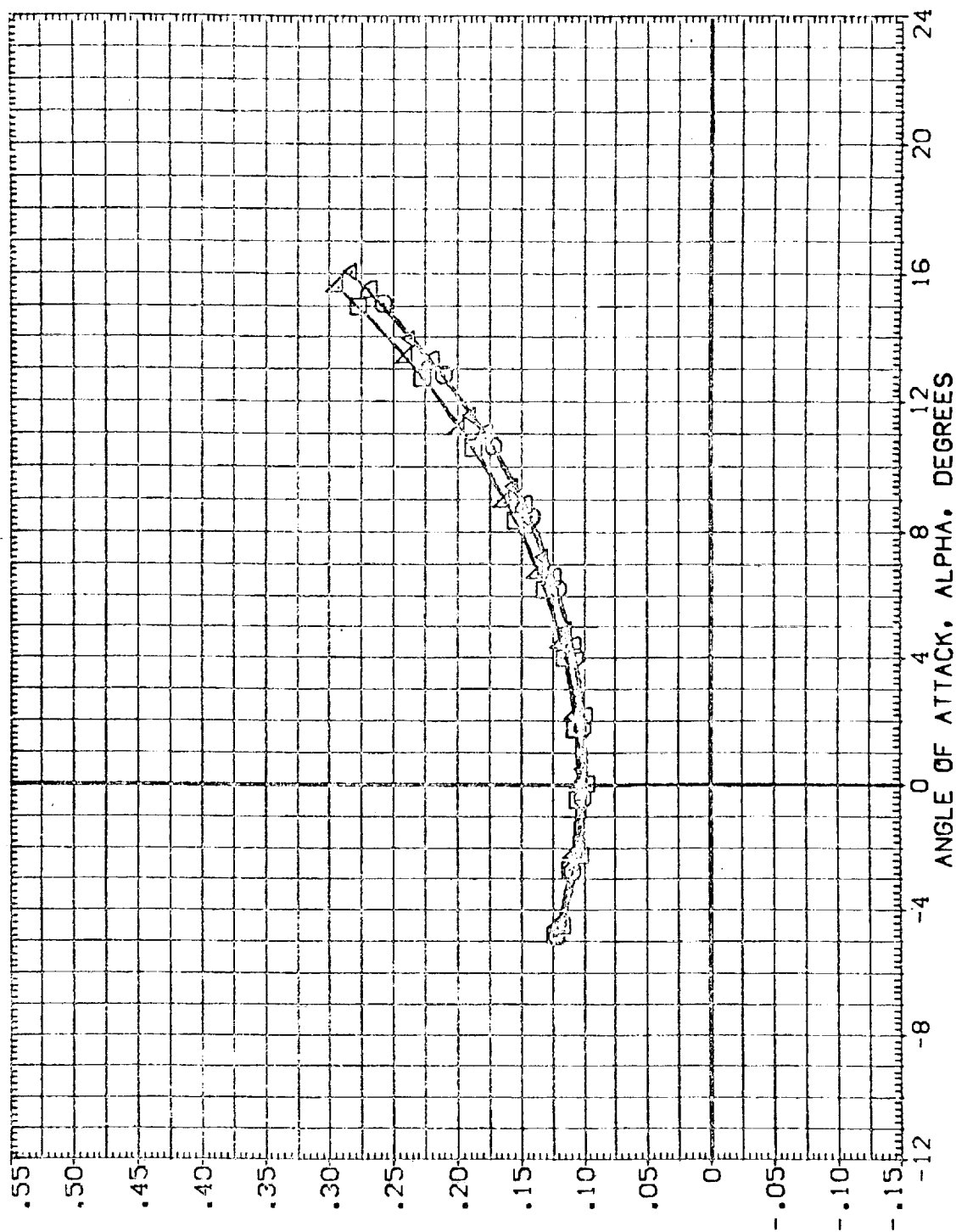


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.171C IN.
(GER012)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

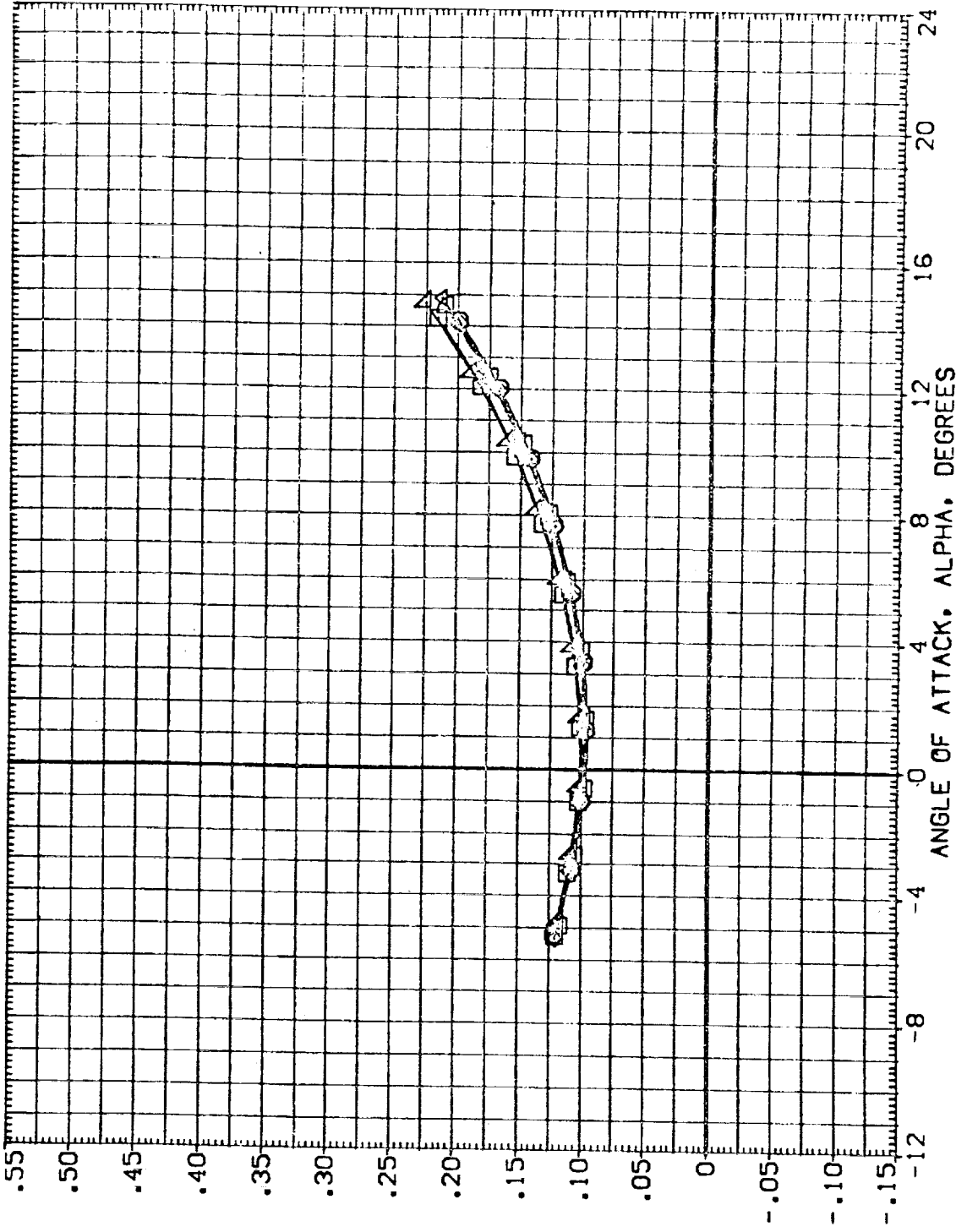


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GE005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GE006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GE012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GE014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GE015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

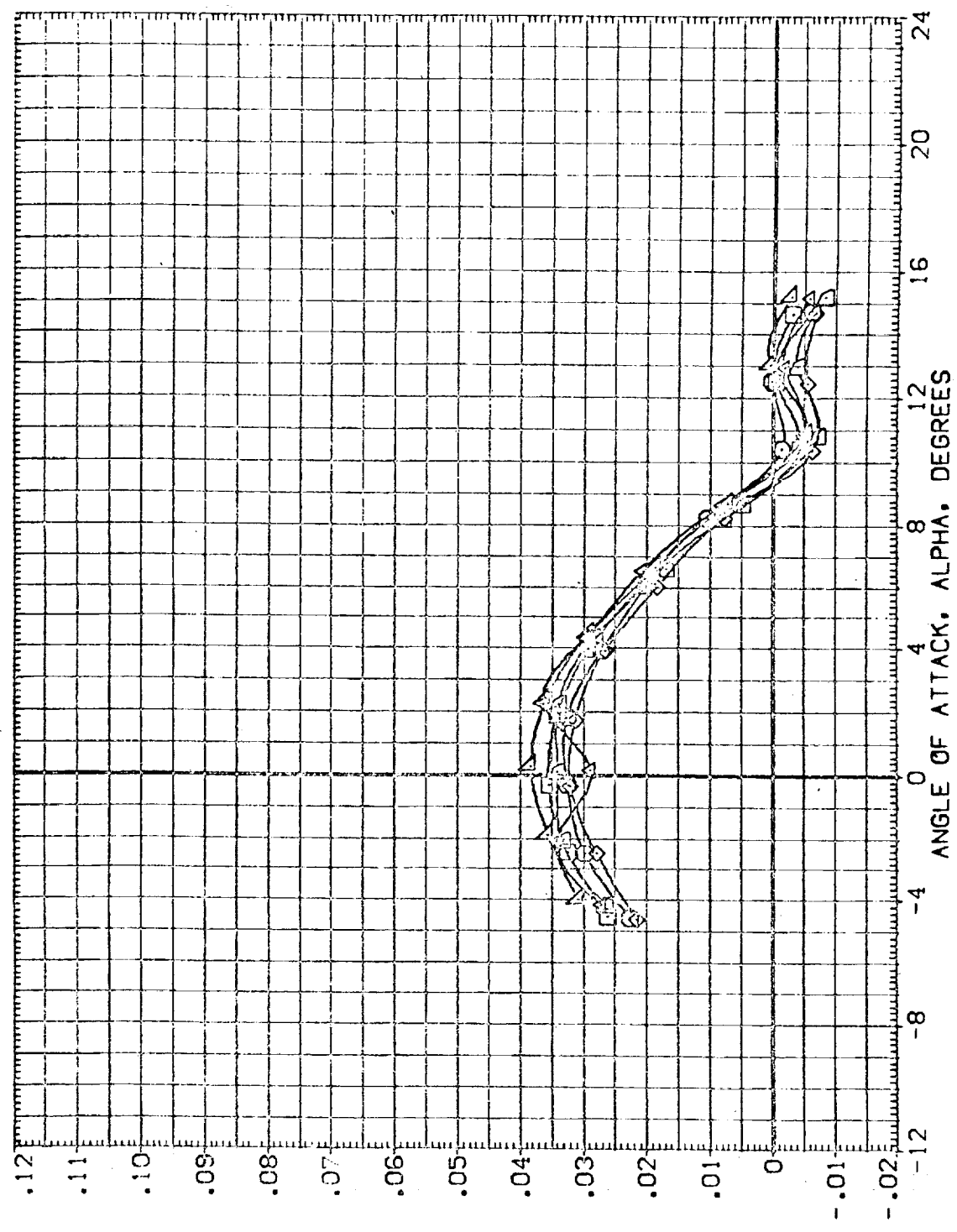


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

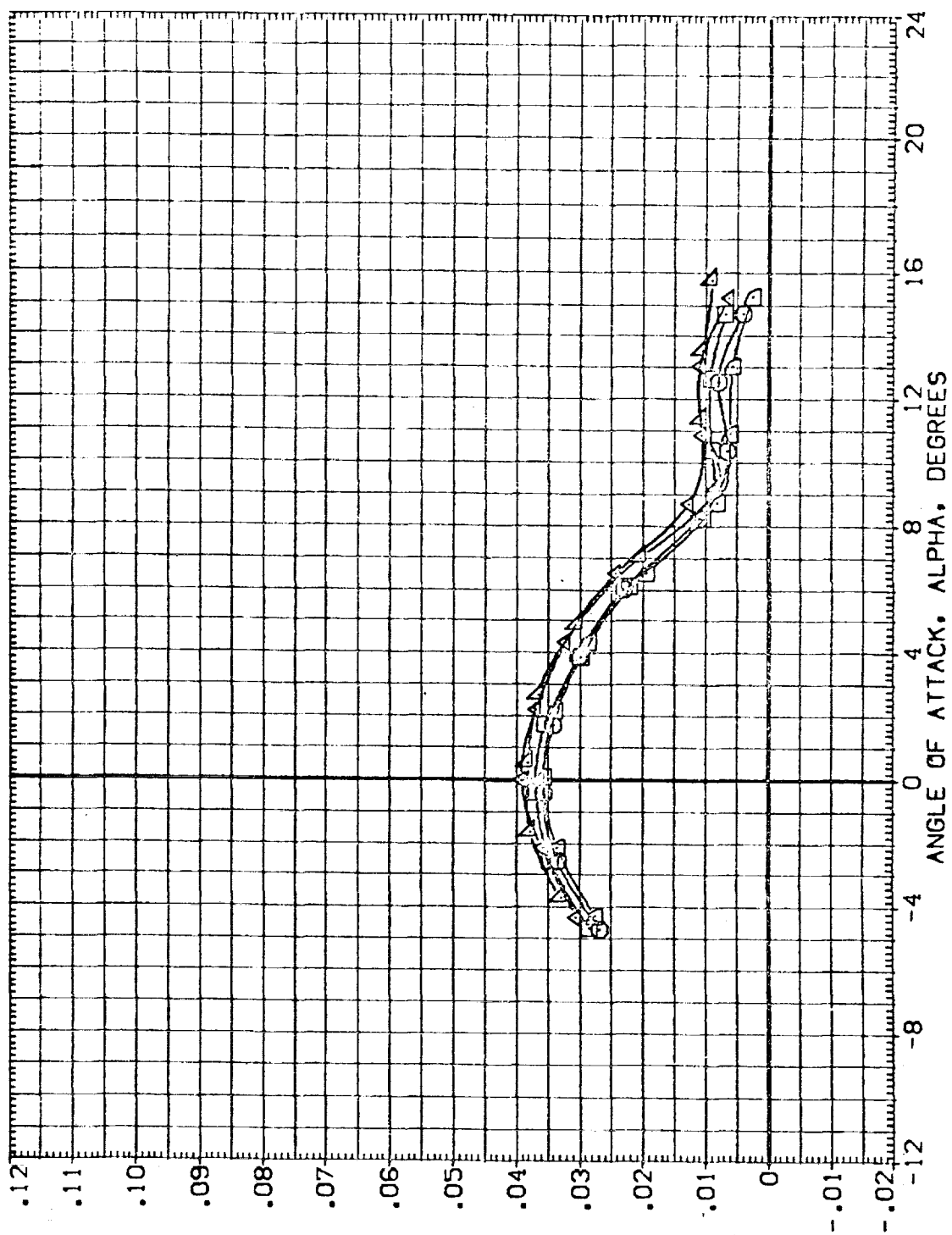
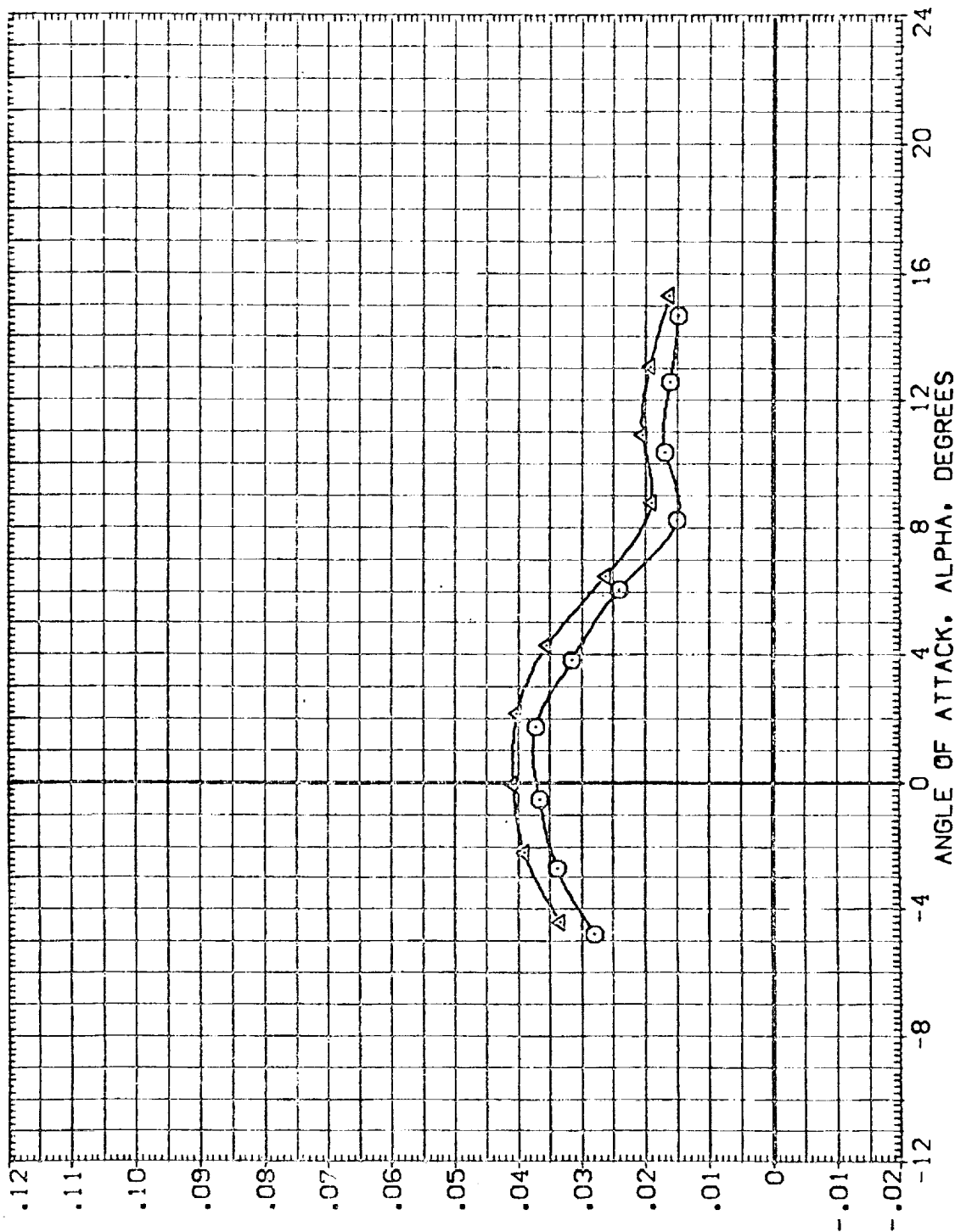


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, CAF

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	.000	SCALE .0150

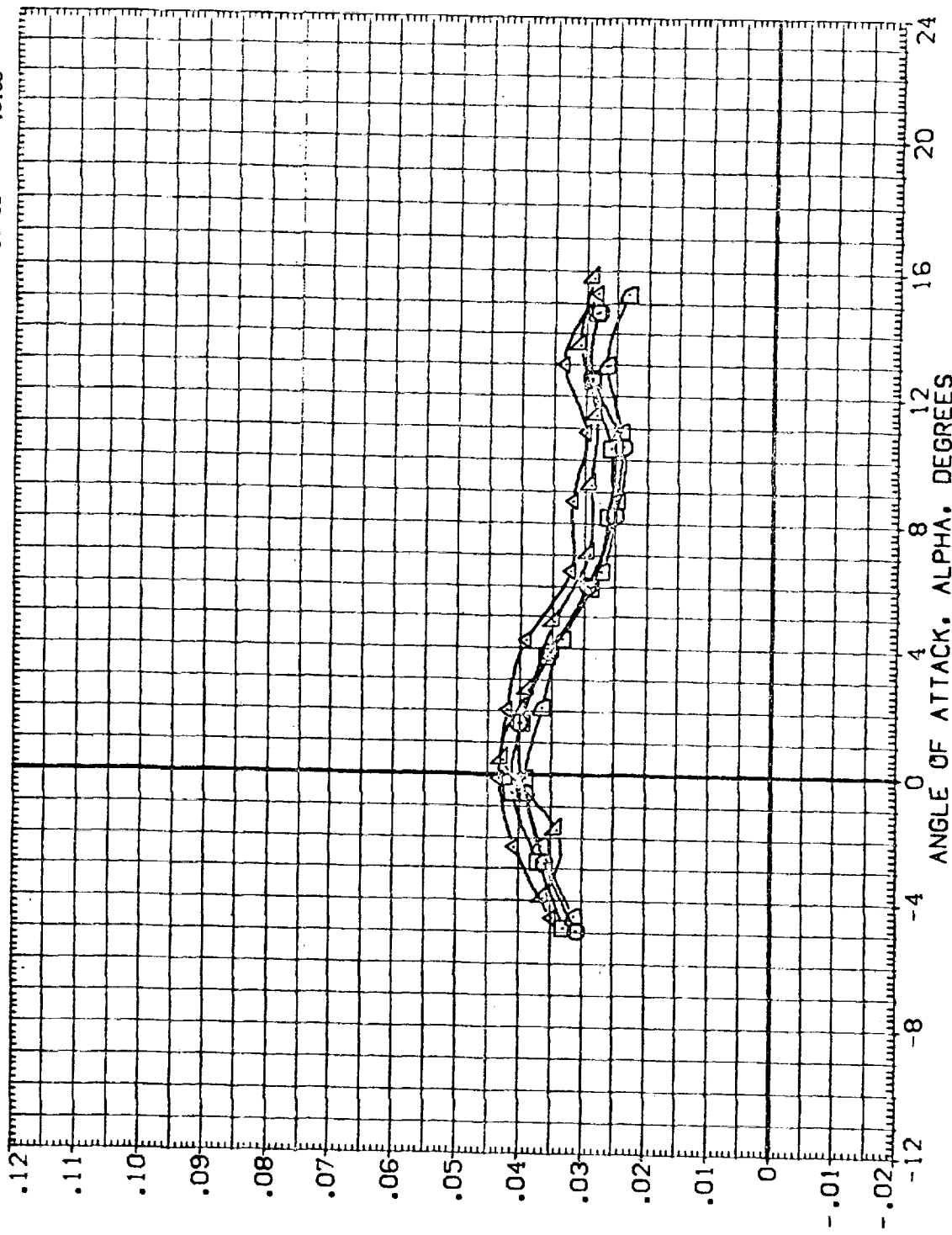
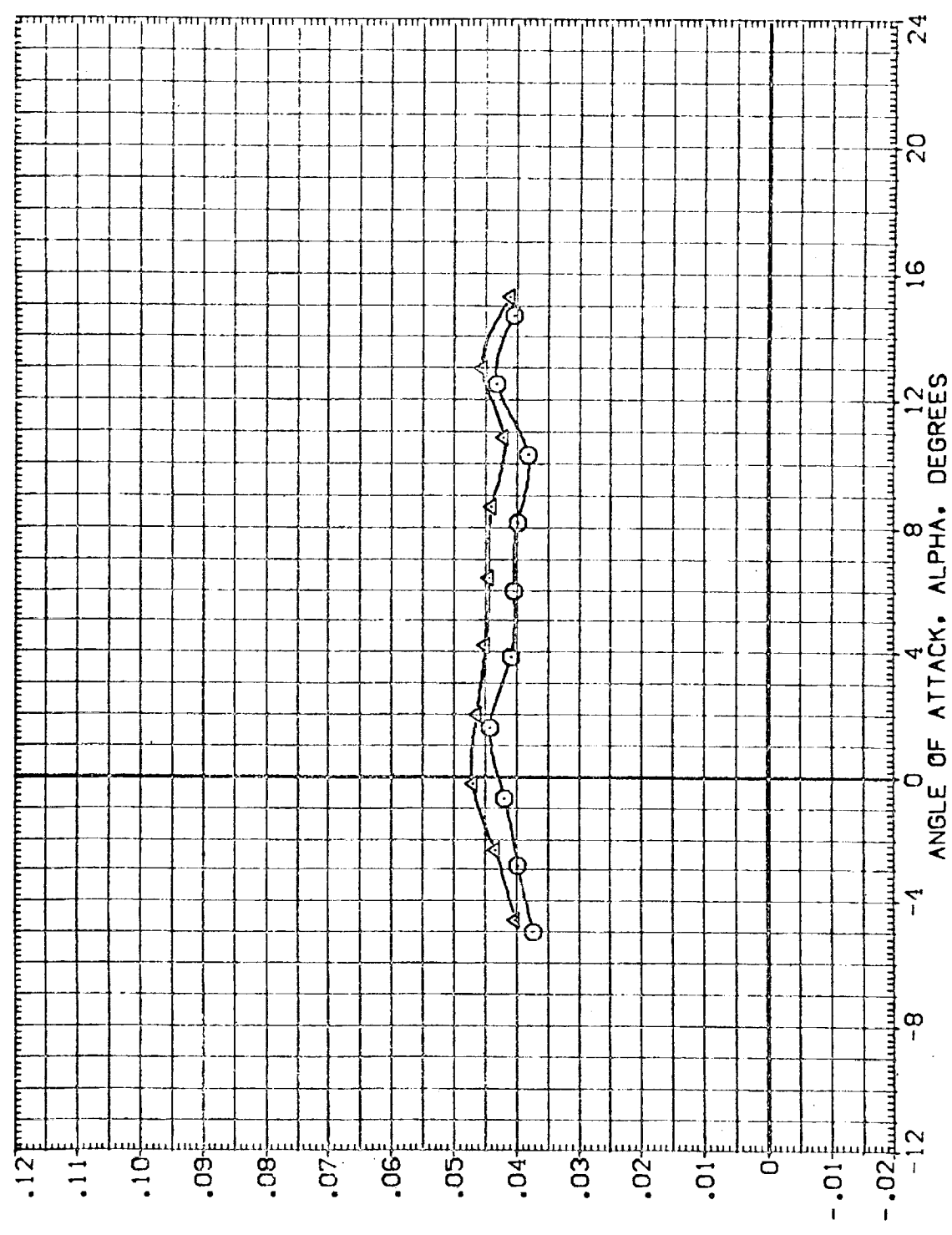


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 D459 D411A-(N24 RS VB1)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 D459 D411A-(RS VB1)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, Cax

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

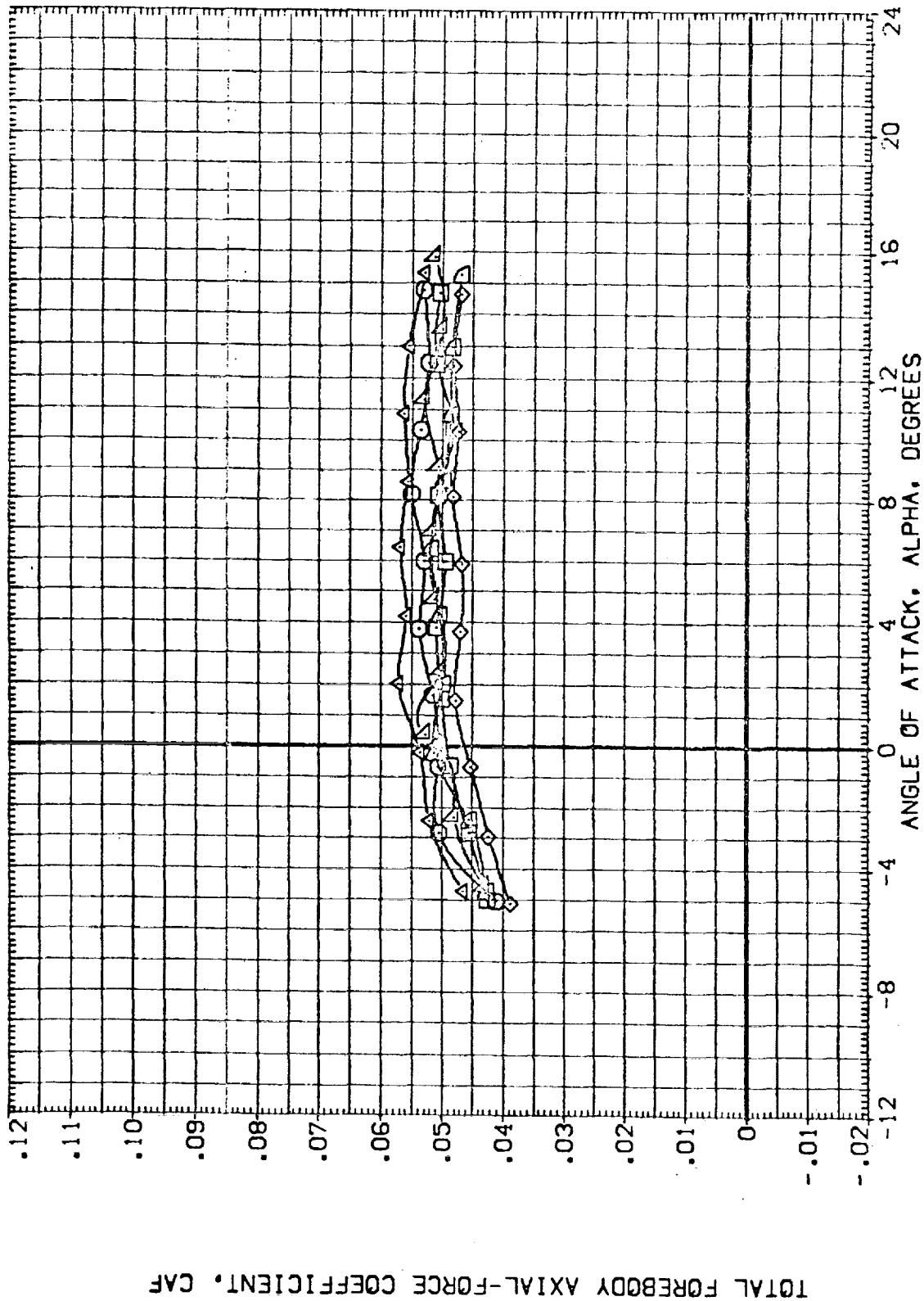


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET	SYMBOL
(GER001)	
(GER005)	
(GER006)	
(GER012)	
(GER014)	
(GER015)	

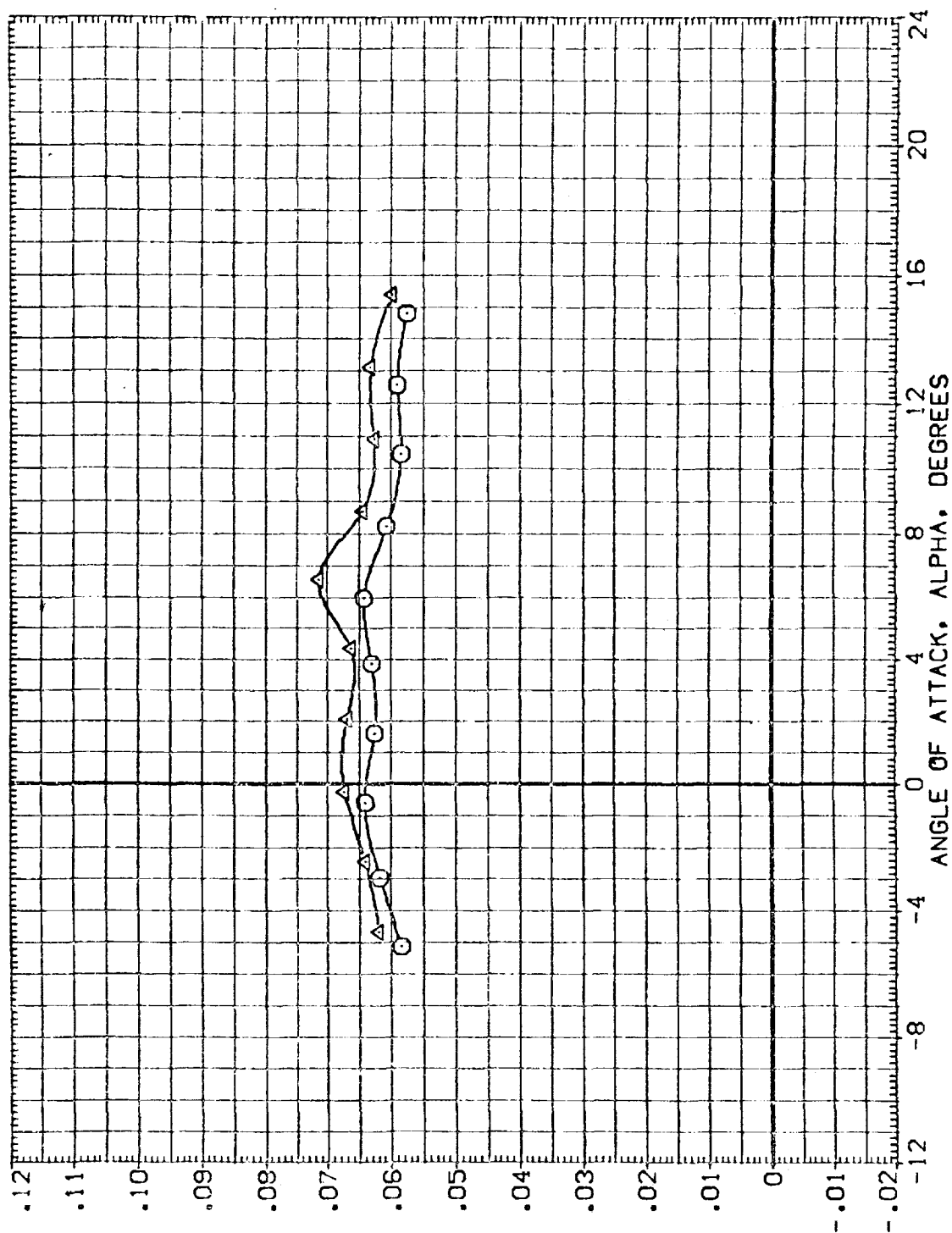


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

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(G)MACH = .95
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

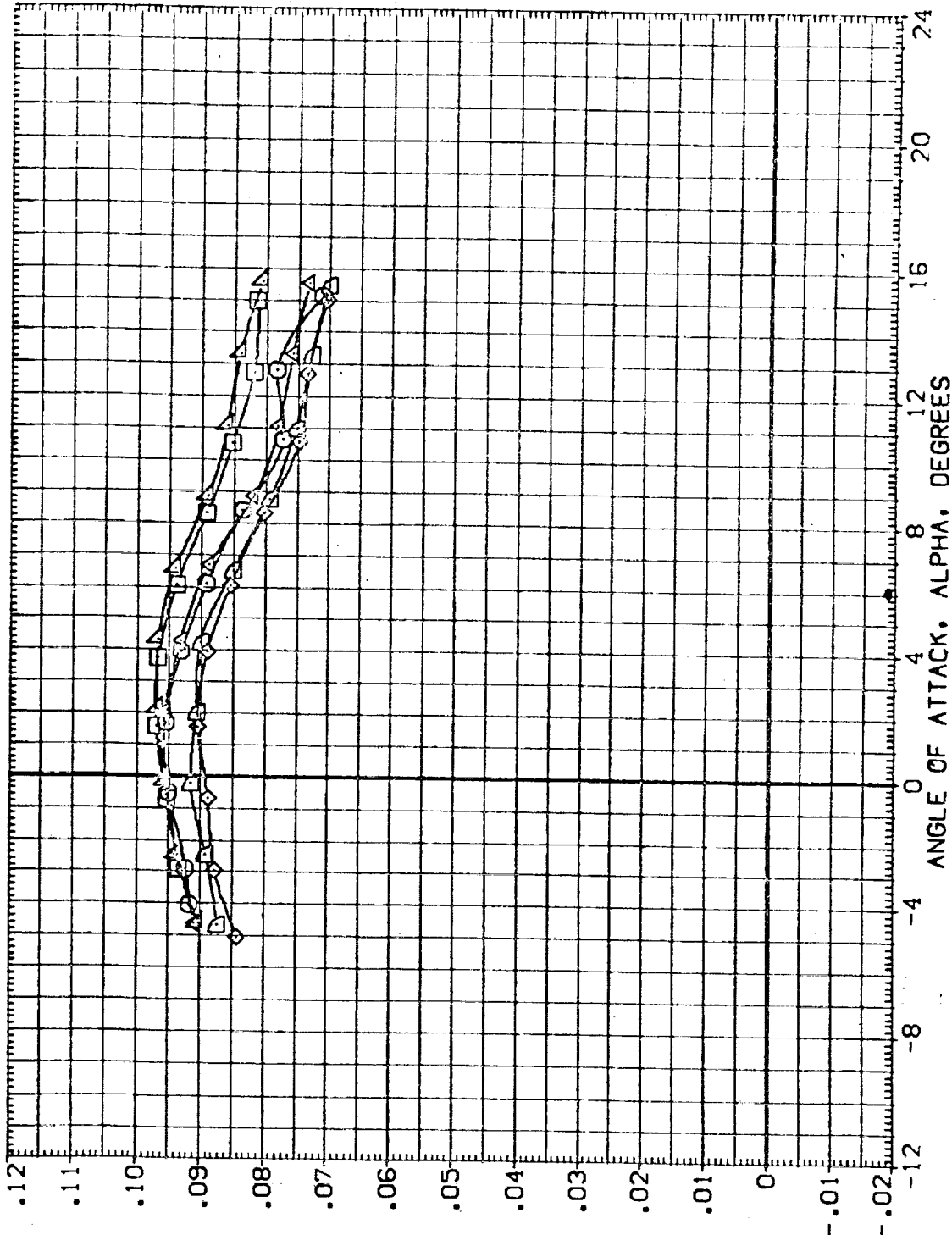


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF 5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

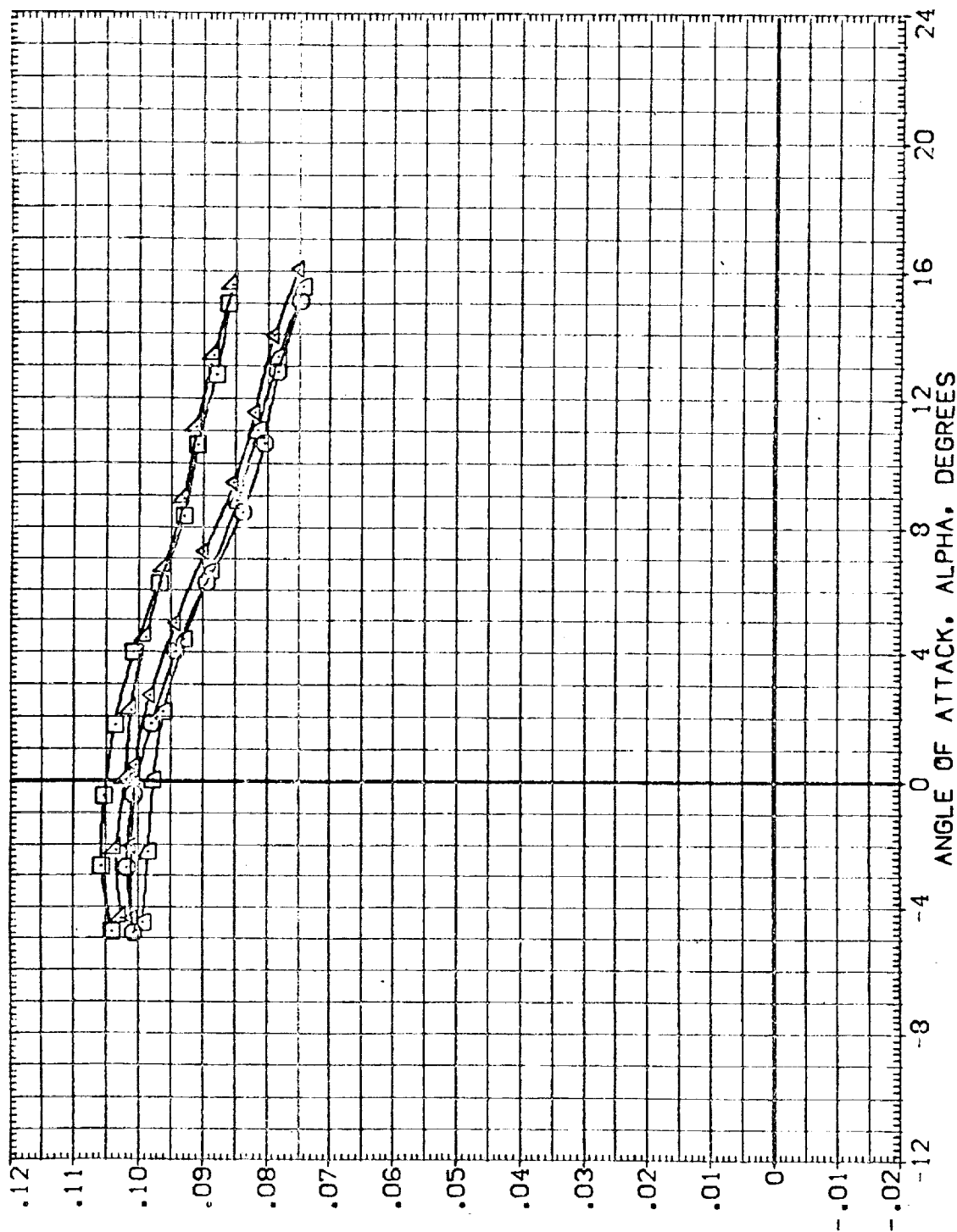


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

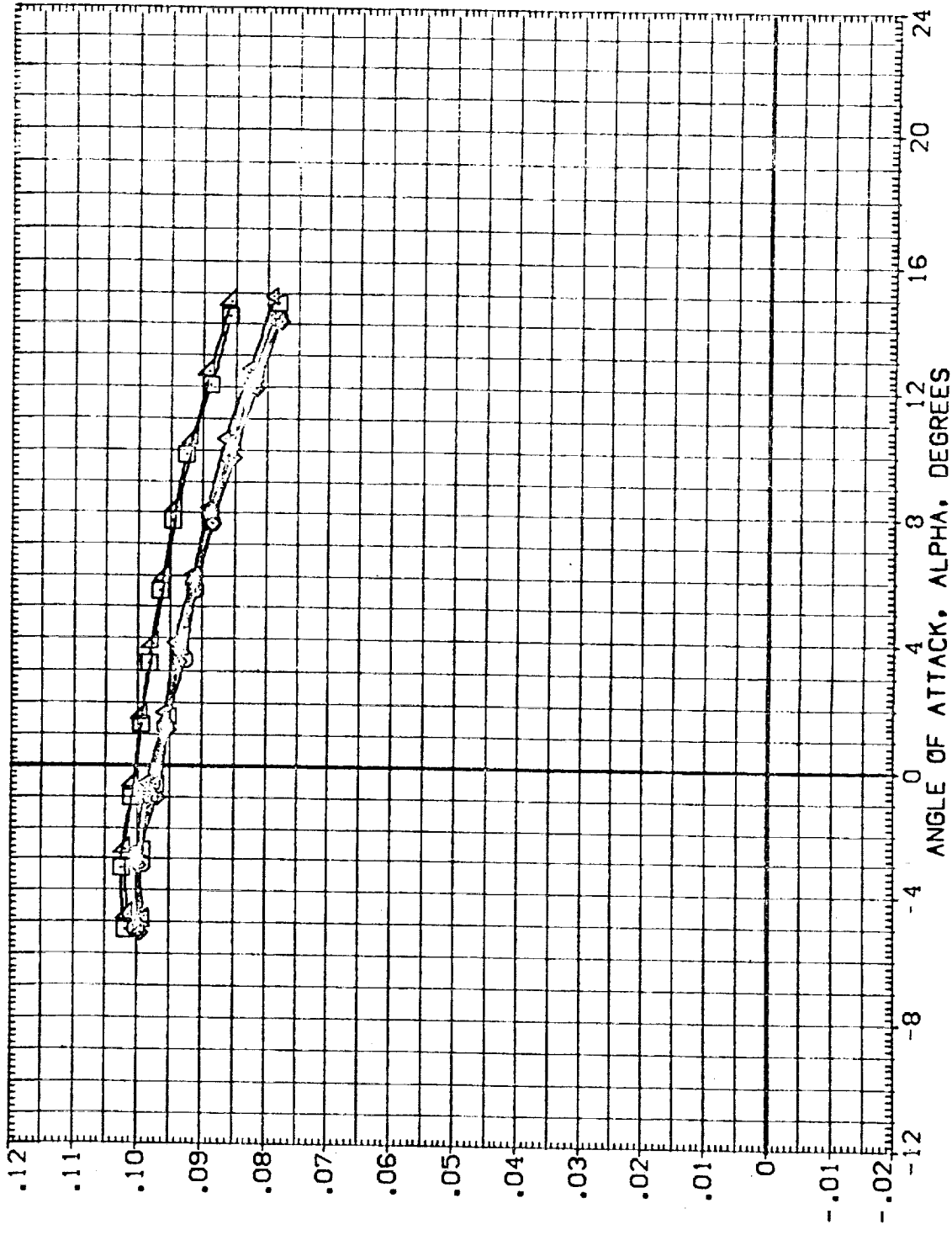


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

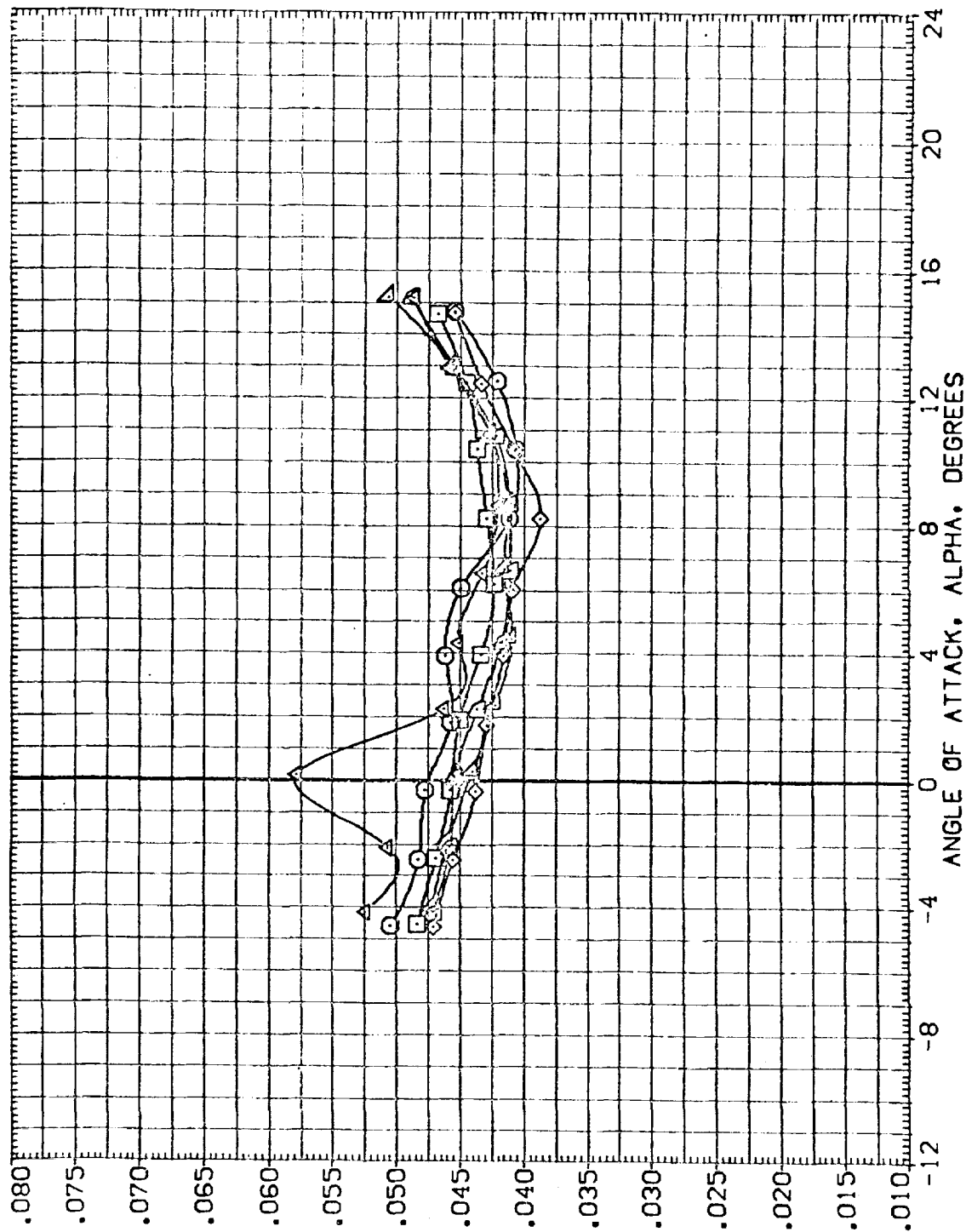


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

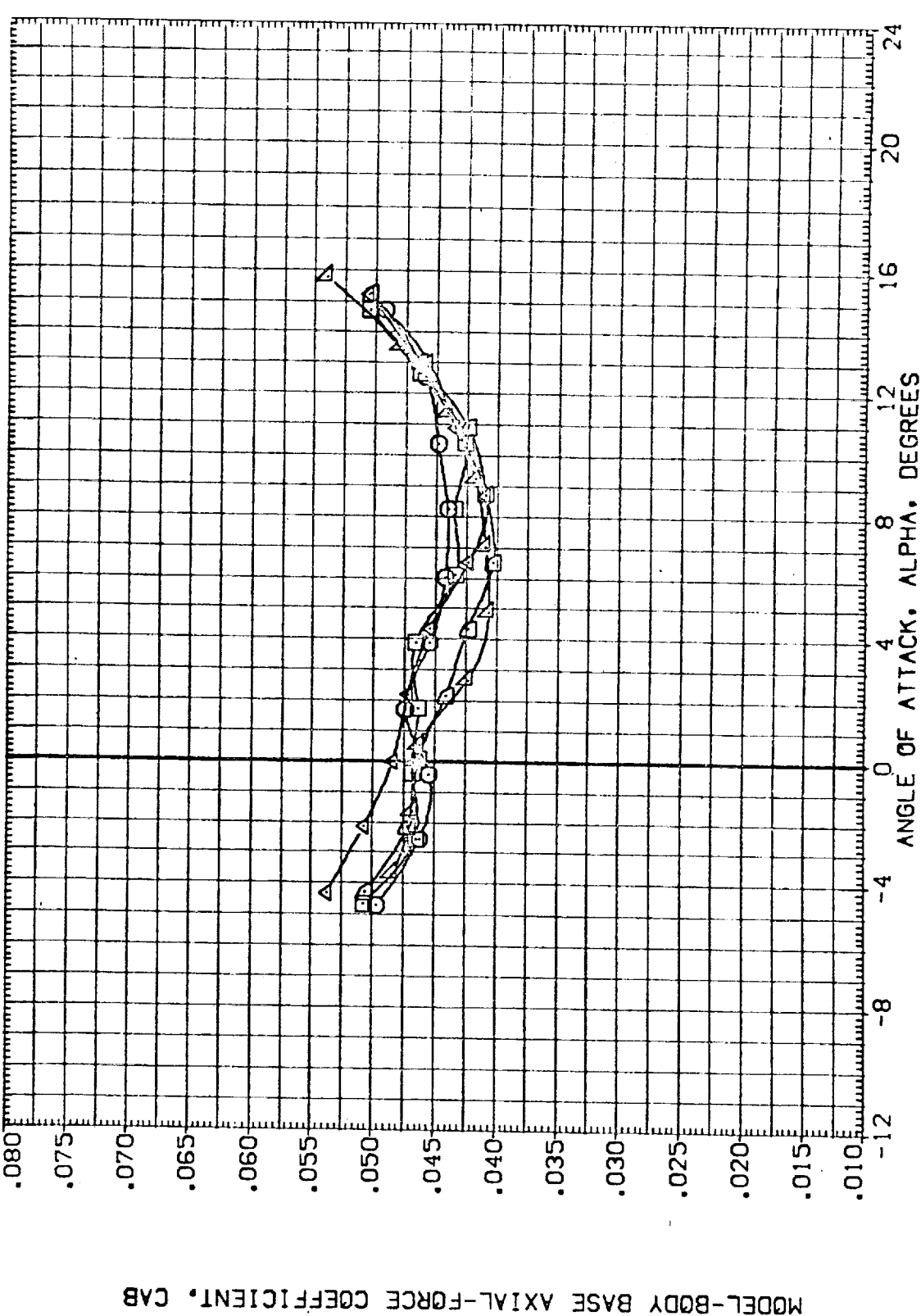
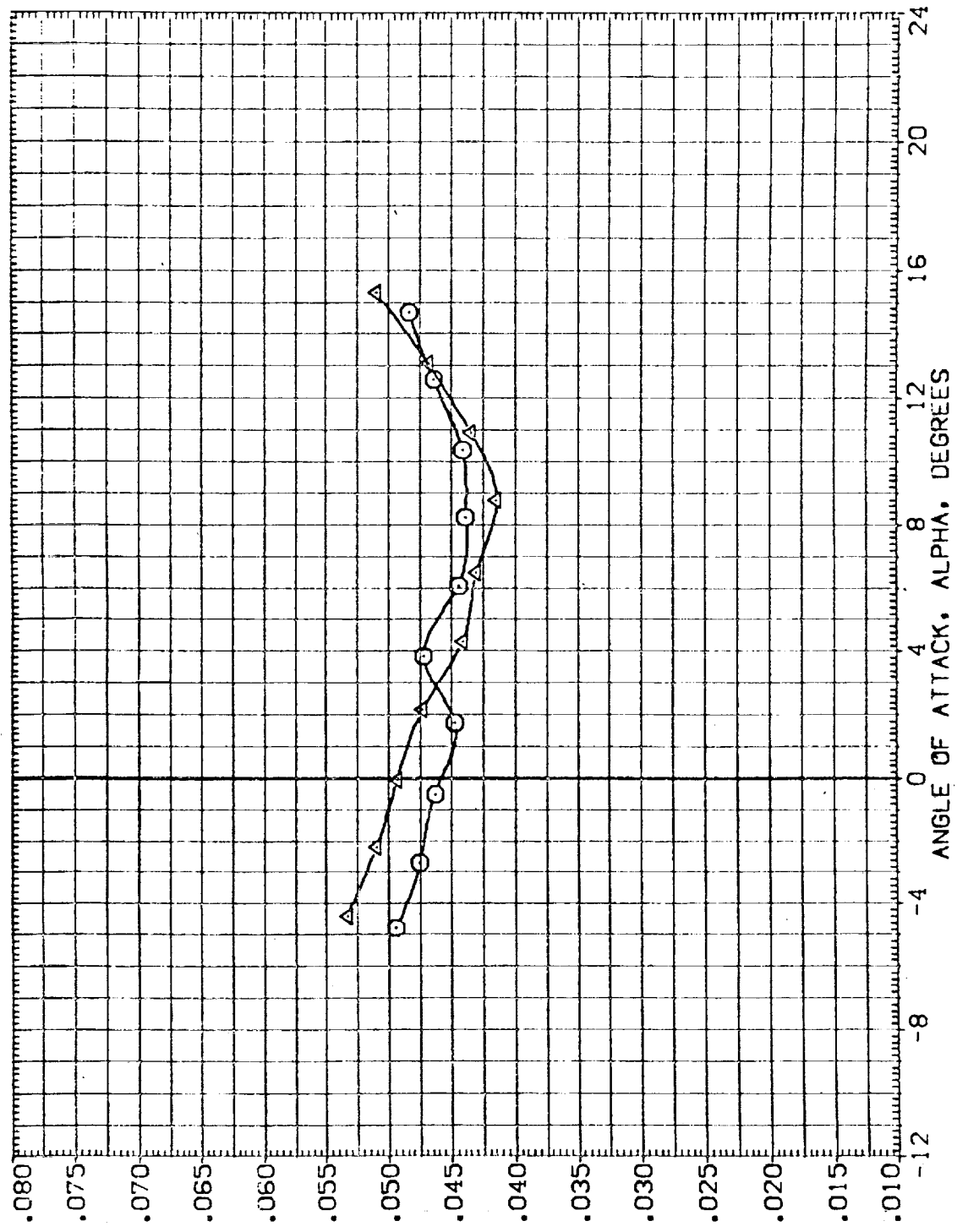


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0003 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 DA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 QAS9 DA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	ARC 66-709 QAS9 DA11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 DA11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

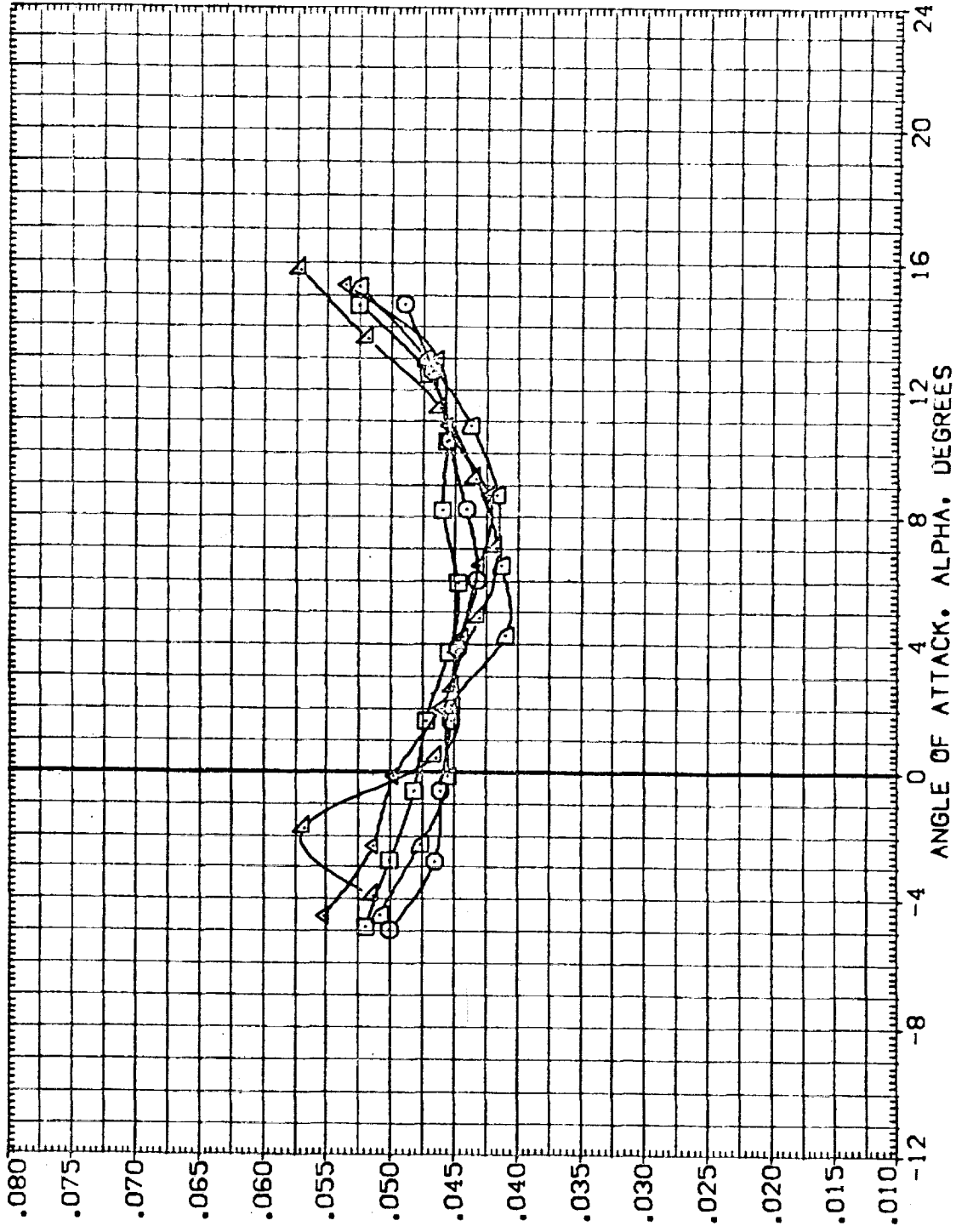
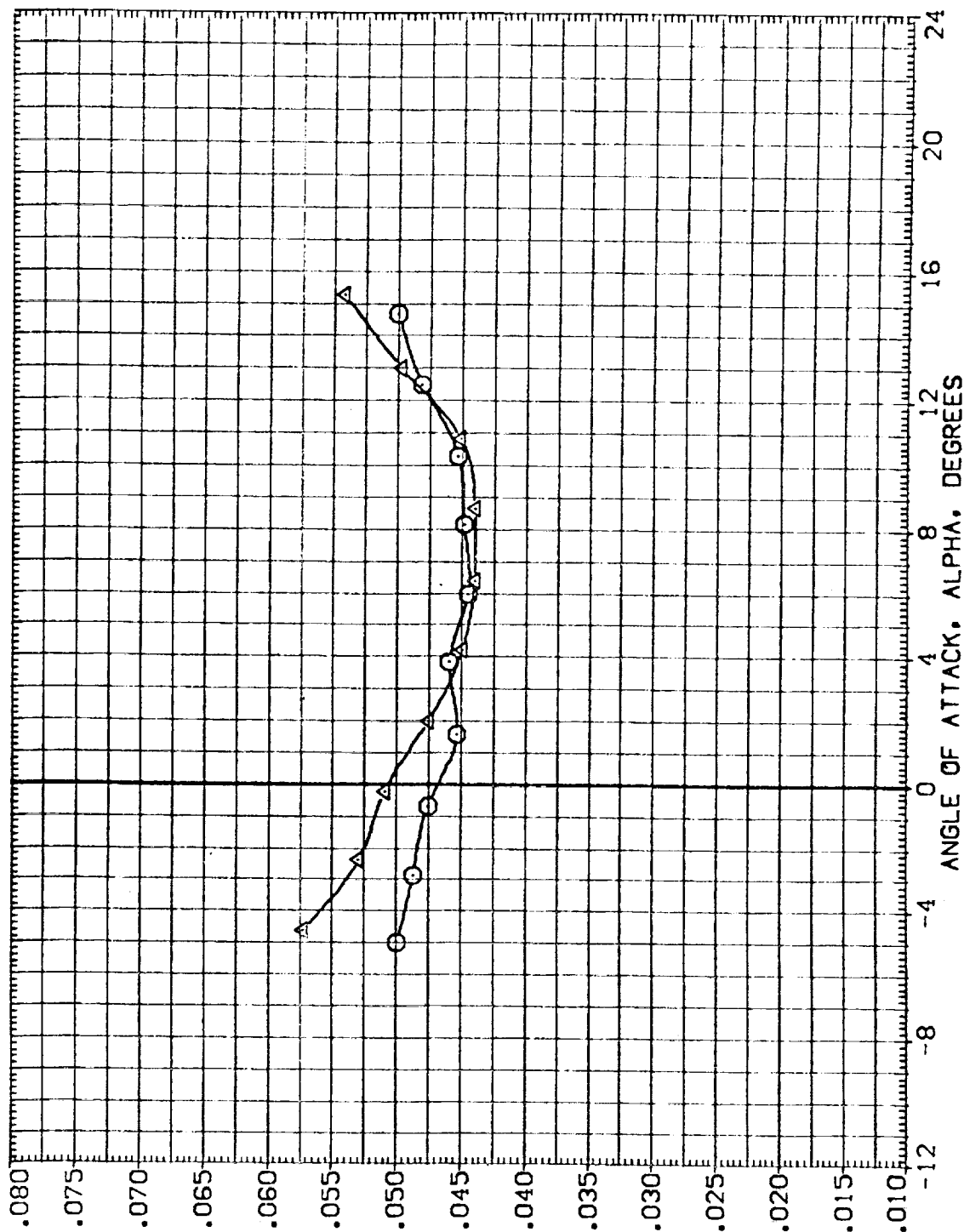


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 0A111A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 0A111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 D459 D111A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 59.FT.
{GER005}	ARC 66-709 D459 D111A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
{GER006}	ARC 66-709 D459 D111A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
{GER012}	ARC 66-709 D459 D111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{GER014}	ARC 66-709 D459 D111A-(RS V8)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
{GER015}	ARC 66-709 D459 D111A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

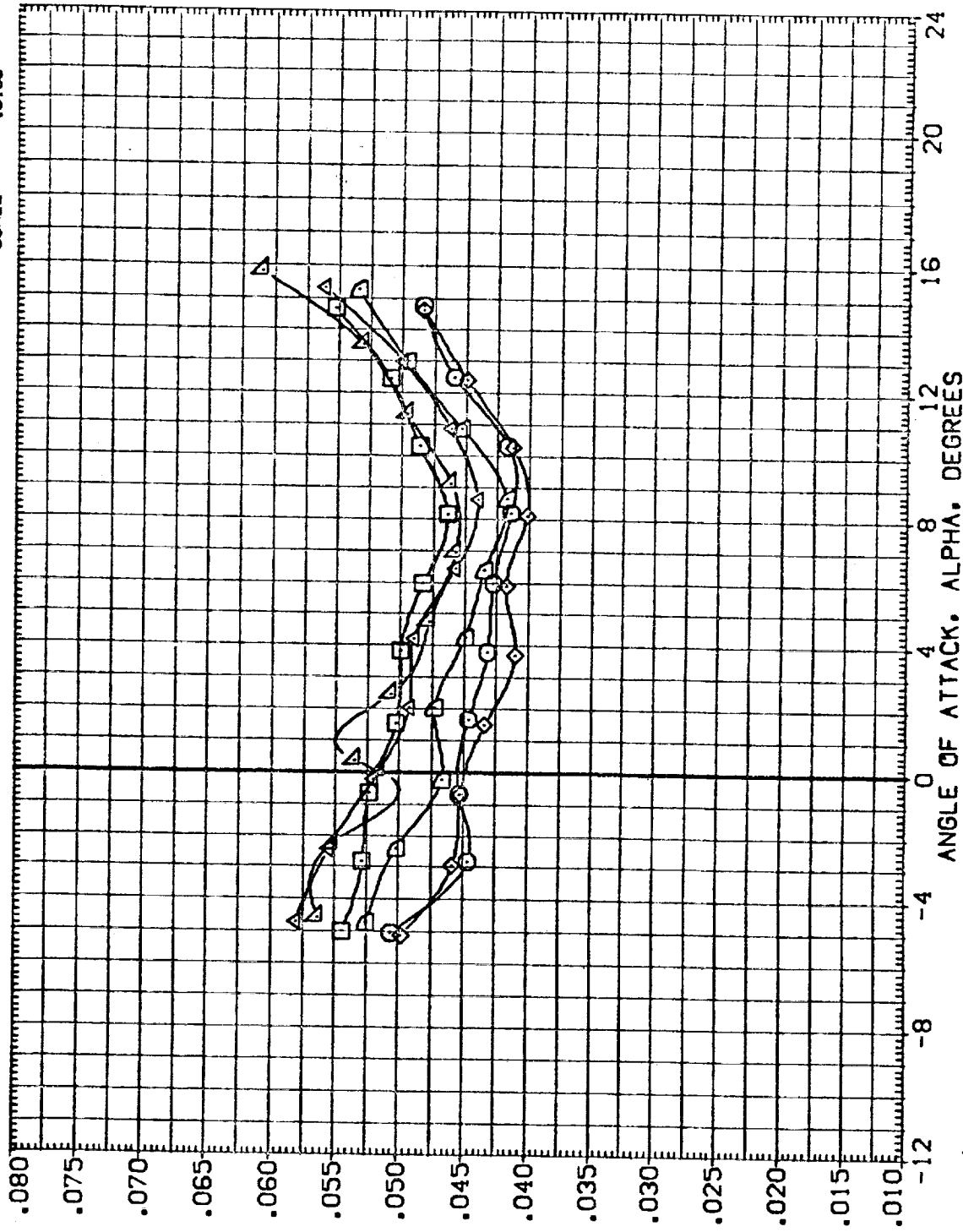
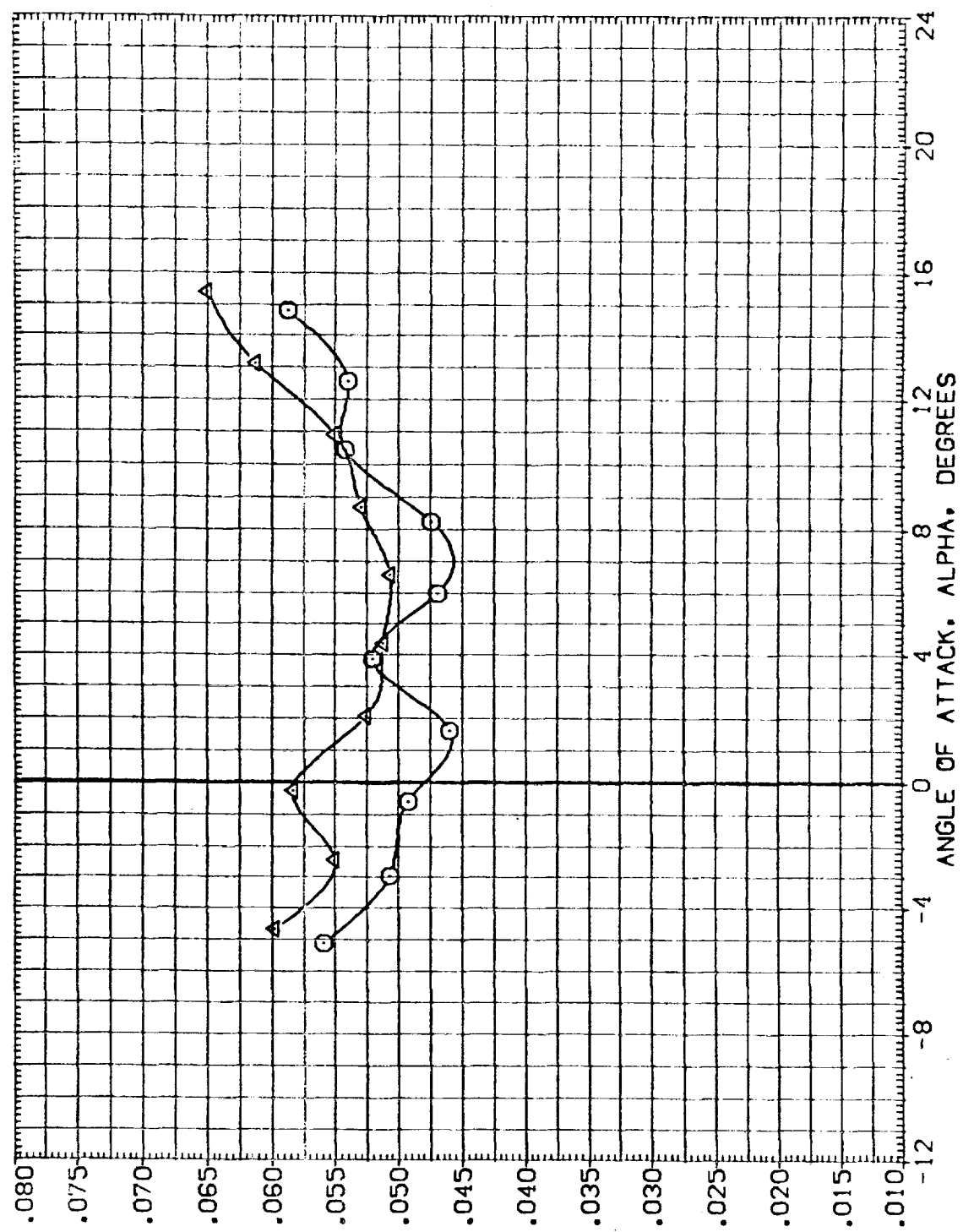


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB  
 REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5835 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

DATA INFORMATION DESCRIPTION  
 ARC 66-709 DAS9 DAI1A-(N24 RS V8)+STRUT+DUM SING  
 ARC 66-709 DAS9 DAI1A-(N24 RS V8)+STRUT+DUM SING  
 ARC 66-709 DAS9 DAI1A-(N24 RS V8)+STRUT+DUM SING  
 ARC 66-709 DAS9 DAI1A-(RS V8)+STRUT  
 ARC 66-709 DAS9 DAI1A-(RS V8)+STRUT

BETA .000  
 ELEVON .000  
 BOFLAP -11.700  
 .000 16.300  
 .000 .000  
 .000 -11.700  
 .000 16.300  
 .000 .000

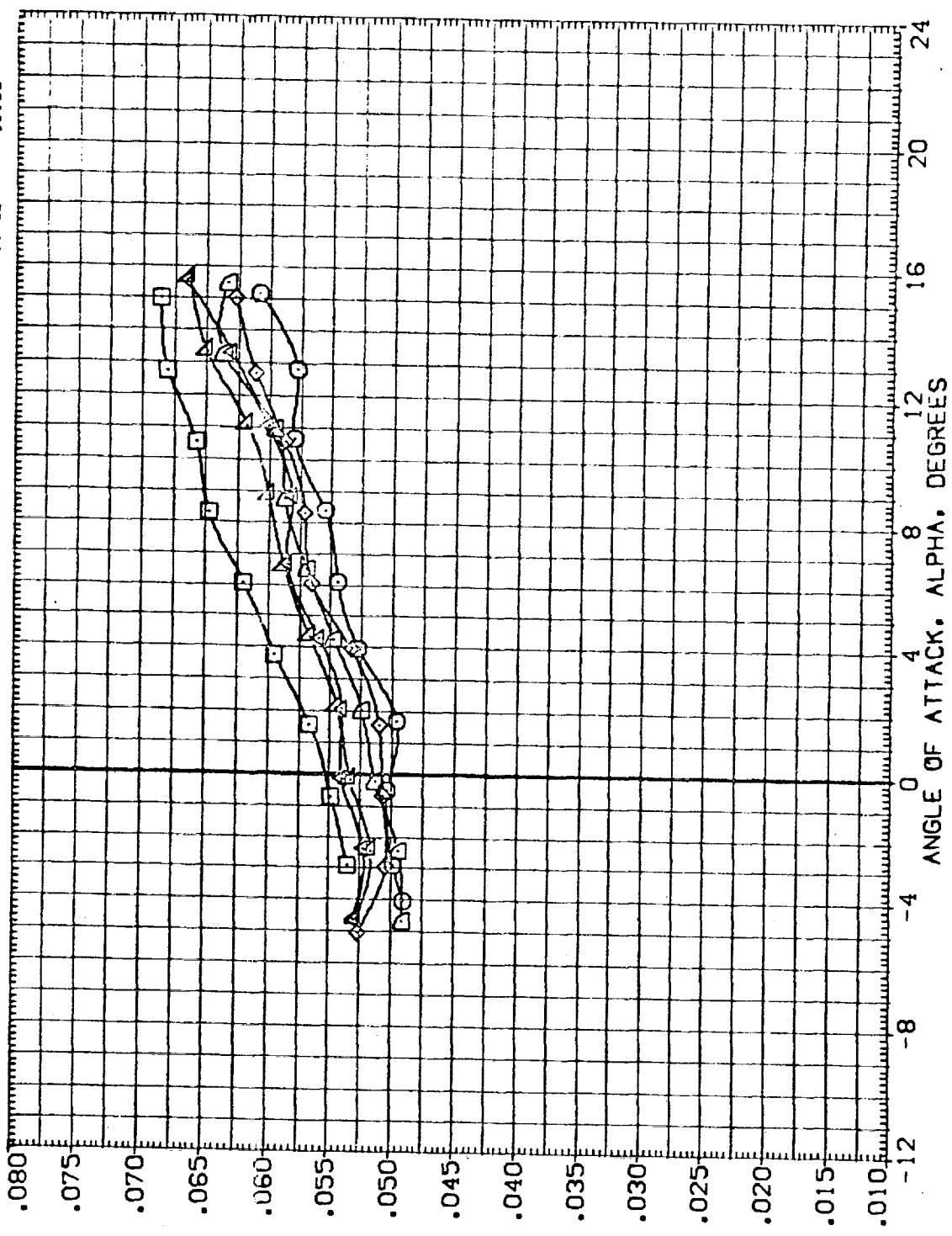


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 .0150

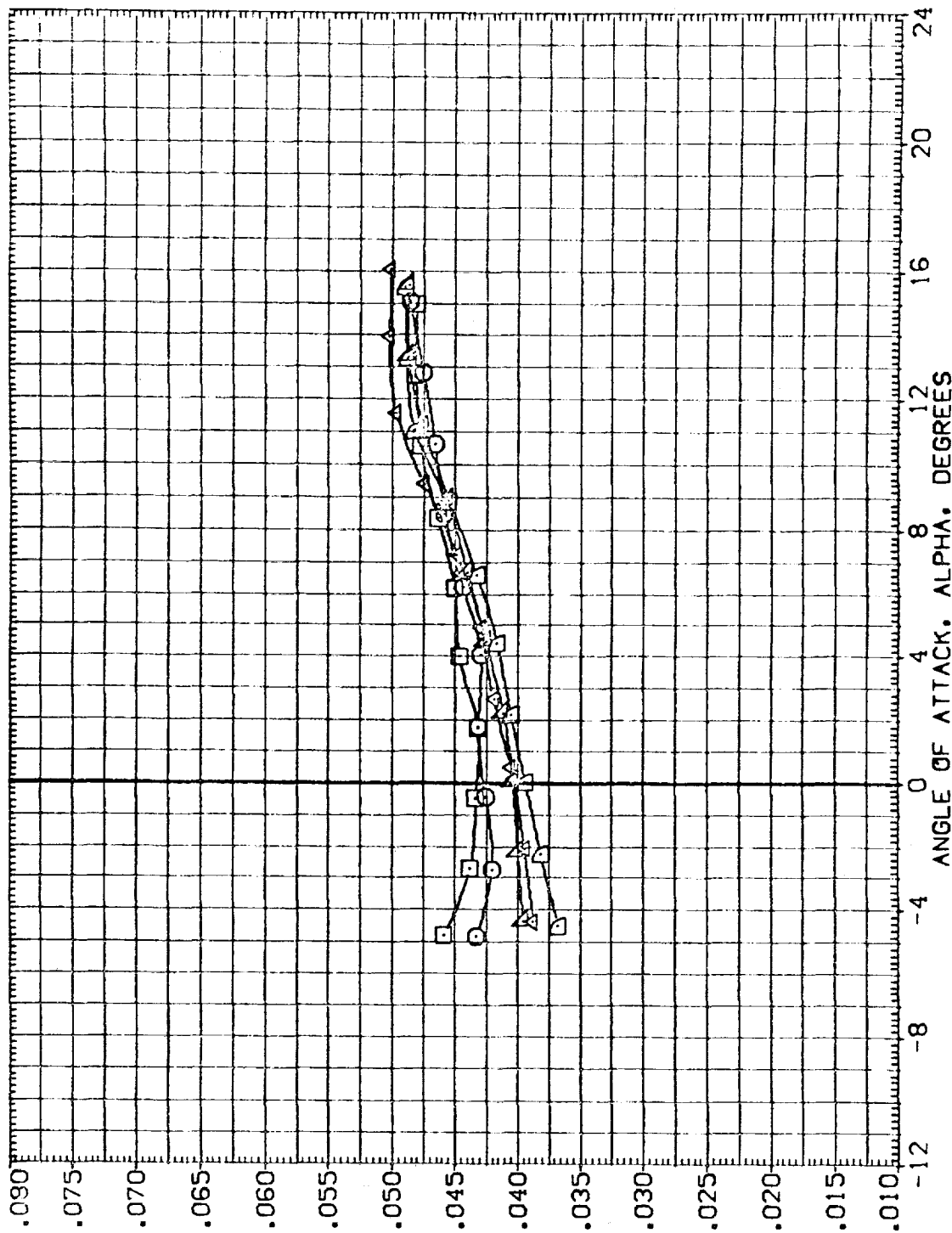


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50. FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.

SCALE .0150

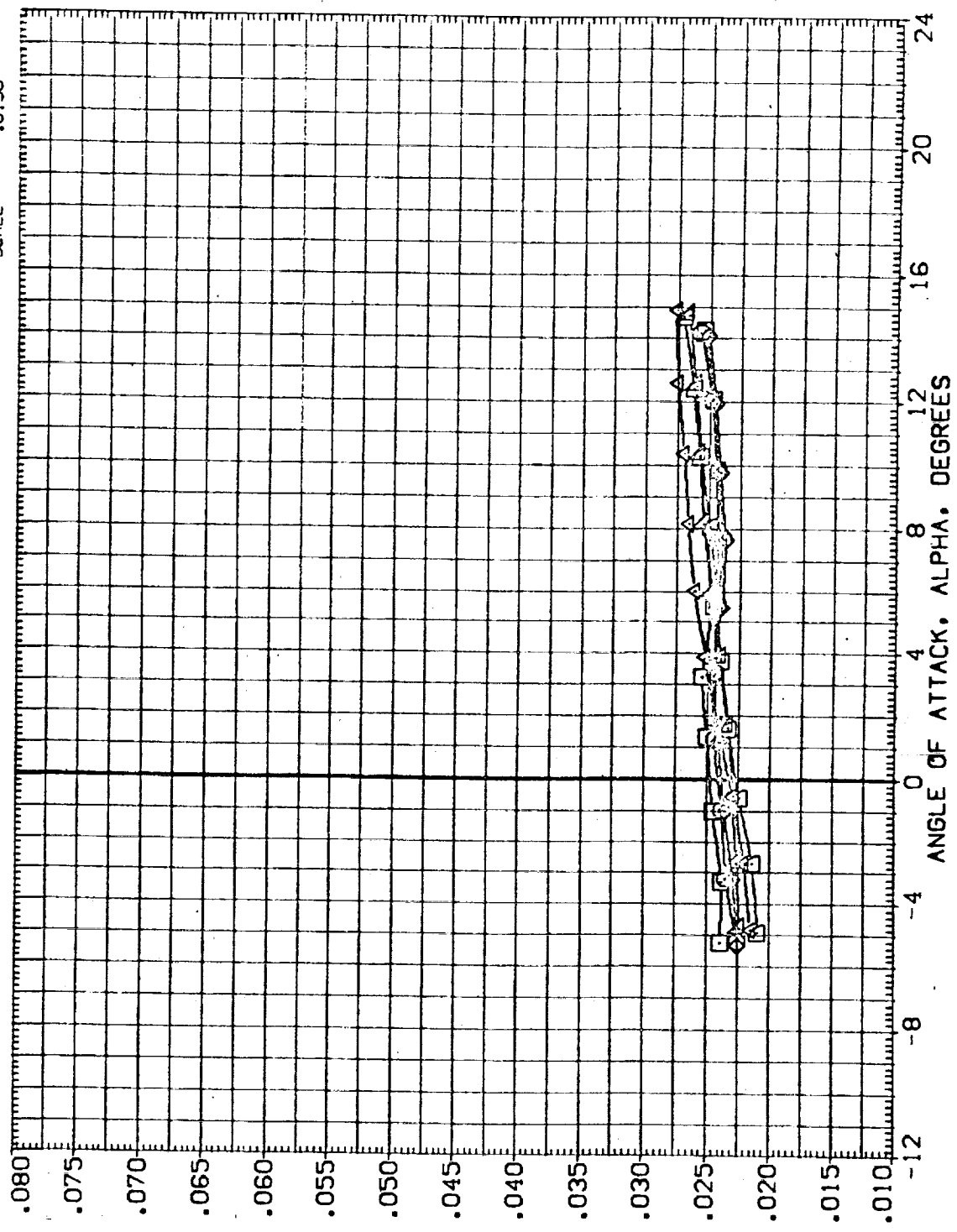


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

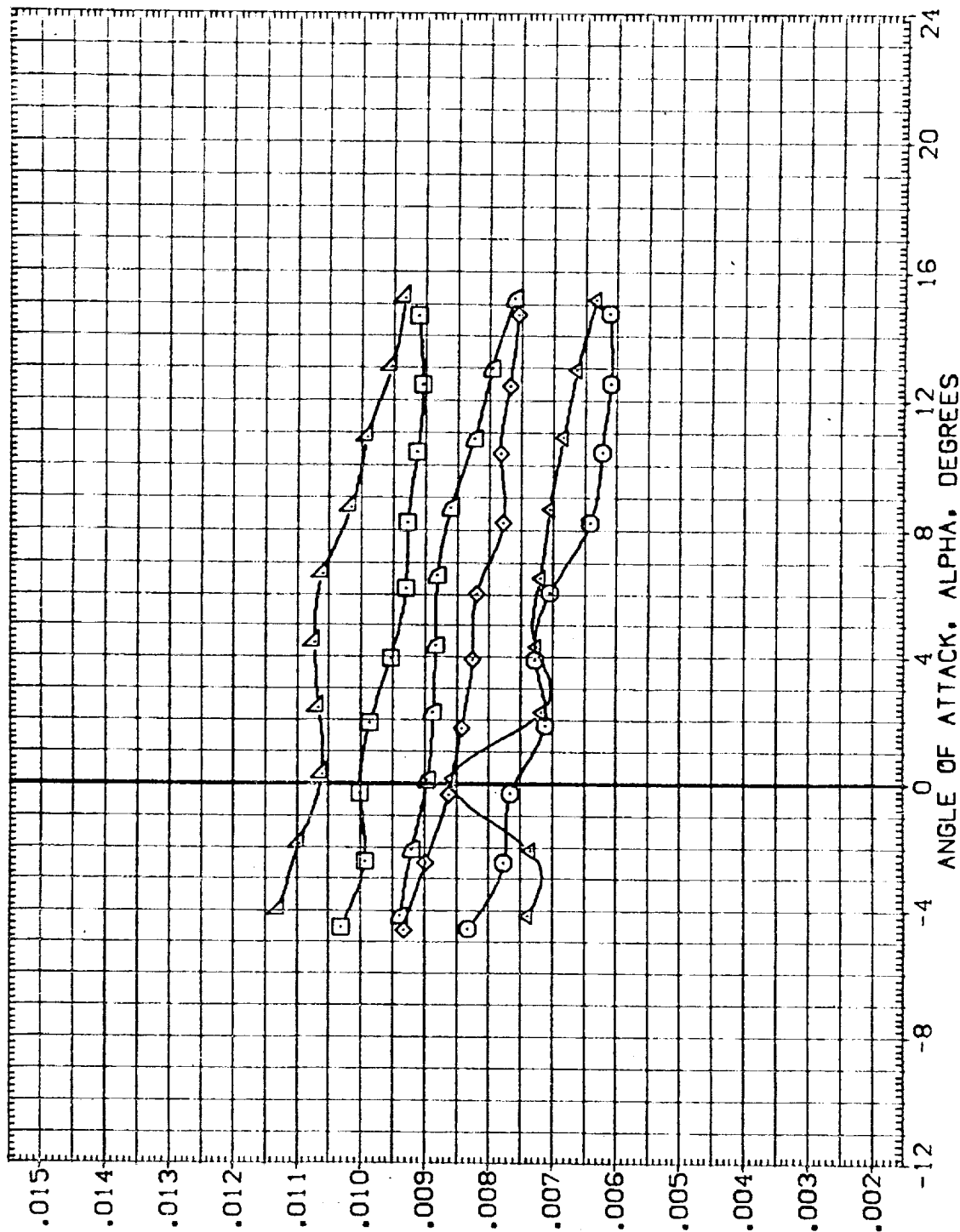
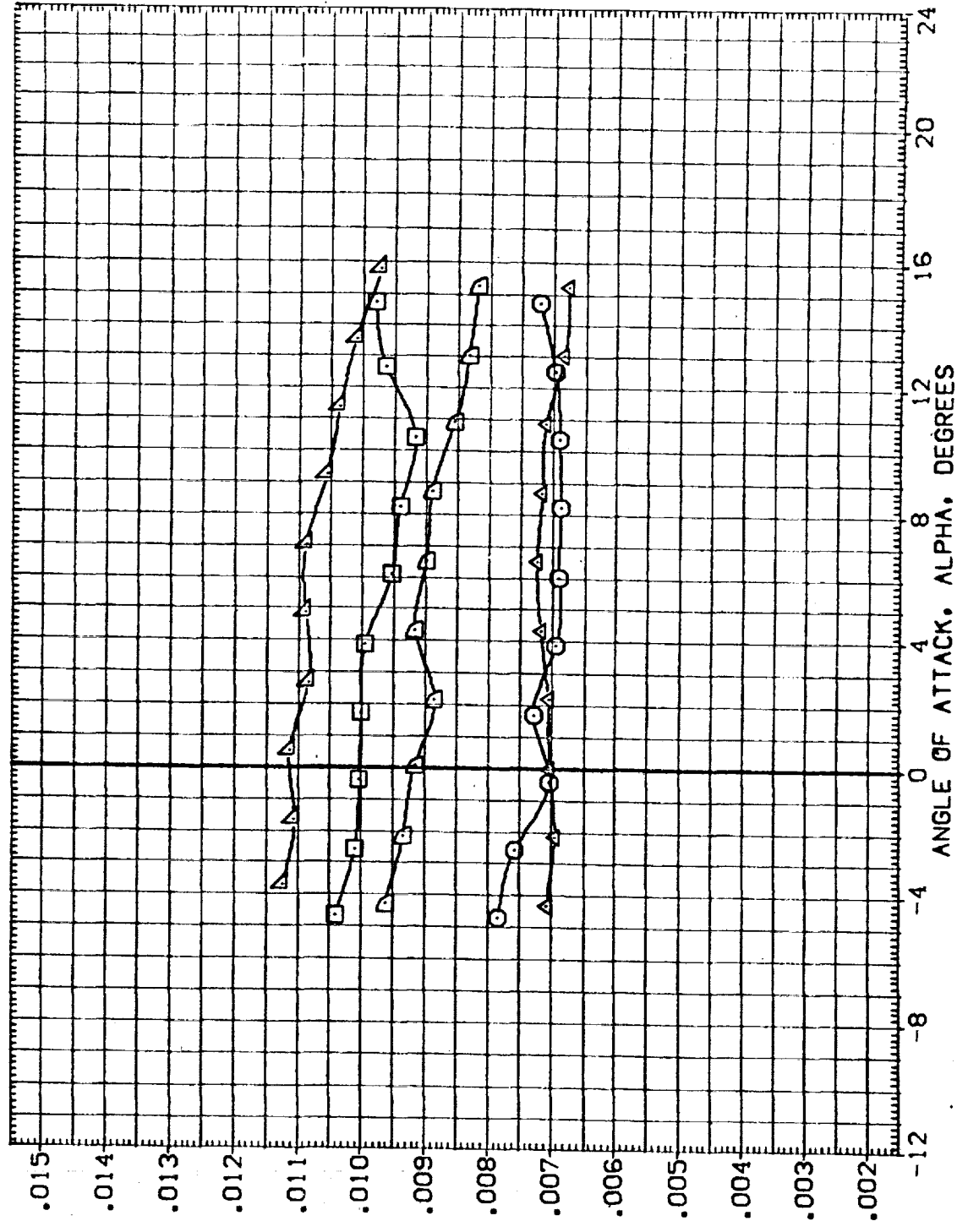


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

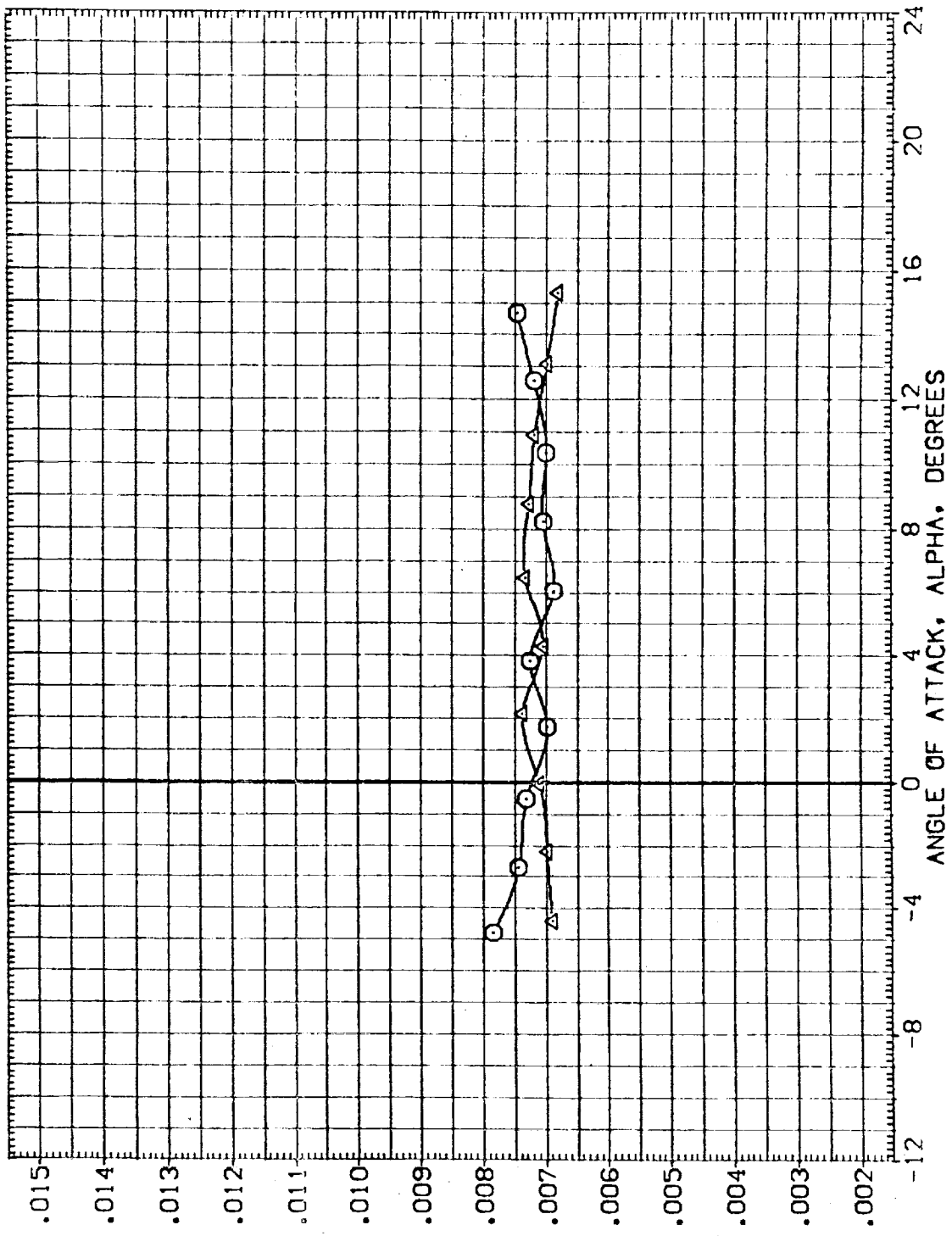


VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BE001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+OUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BE005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BE006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(BE012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
(BE014)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(BE015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(BER001)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STAG	SREF	.6053	50.FT.
(BER005)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STAG	LREF	.5935	FT.
(BER006)	DATA NOT AVAILABLE	BREF	1.1710	FT.
(BER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	XMRP	12.6255	IN.
(BER014)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	YMRP	.0000	IN.
(BER015)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	ZMRP	-.3750	IN.
		SCALE	.0150	

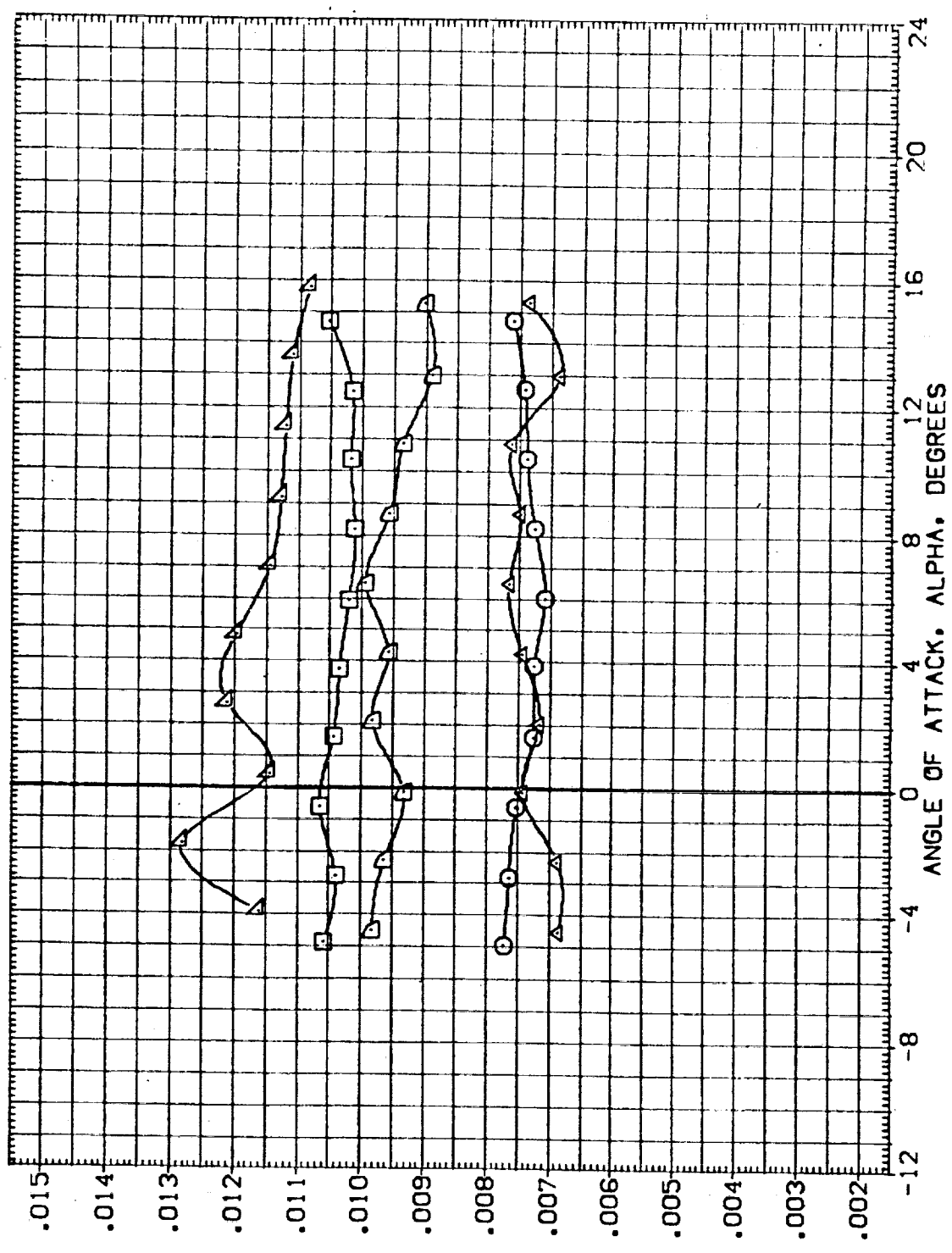


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 65-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 65-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

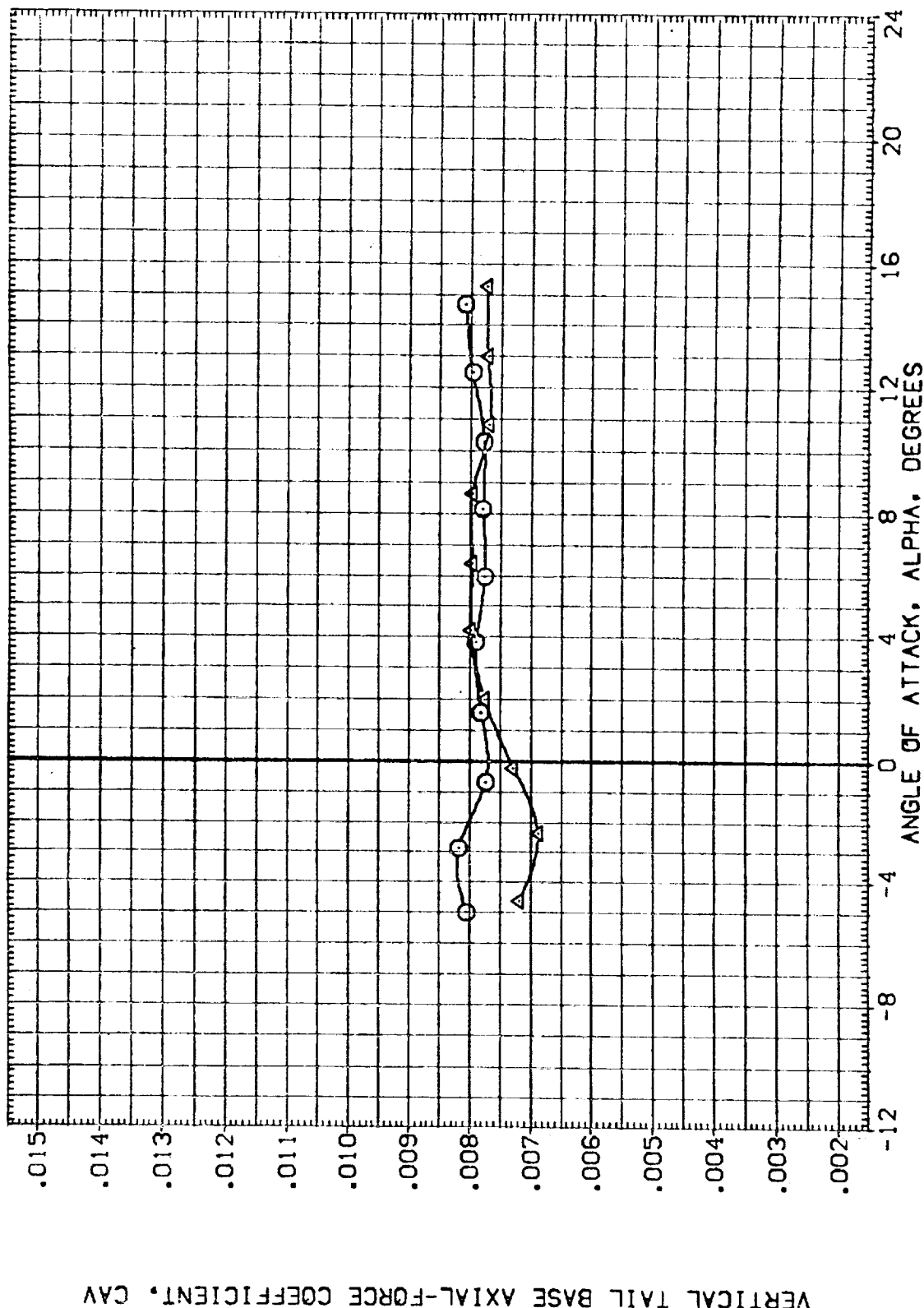


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(BER015)	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

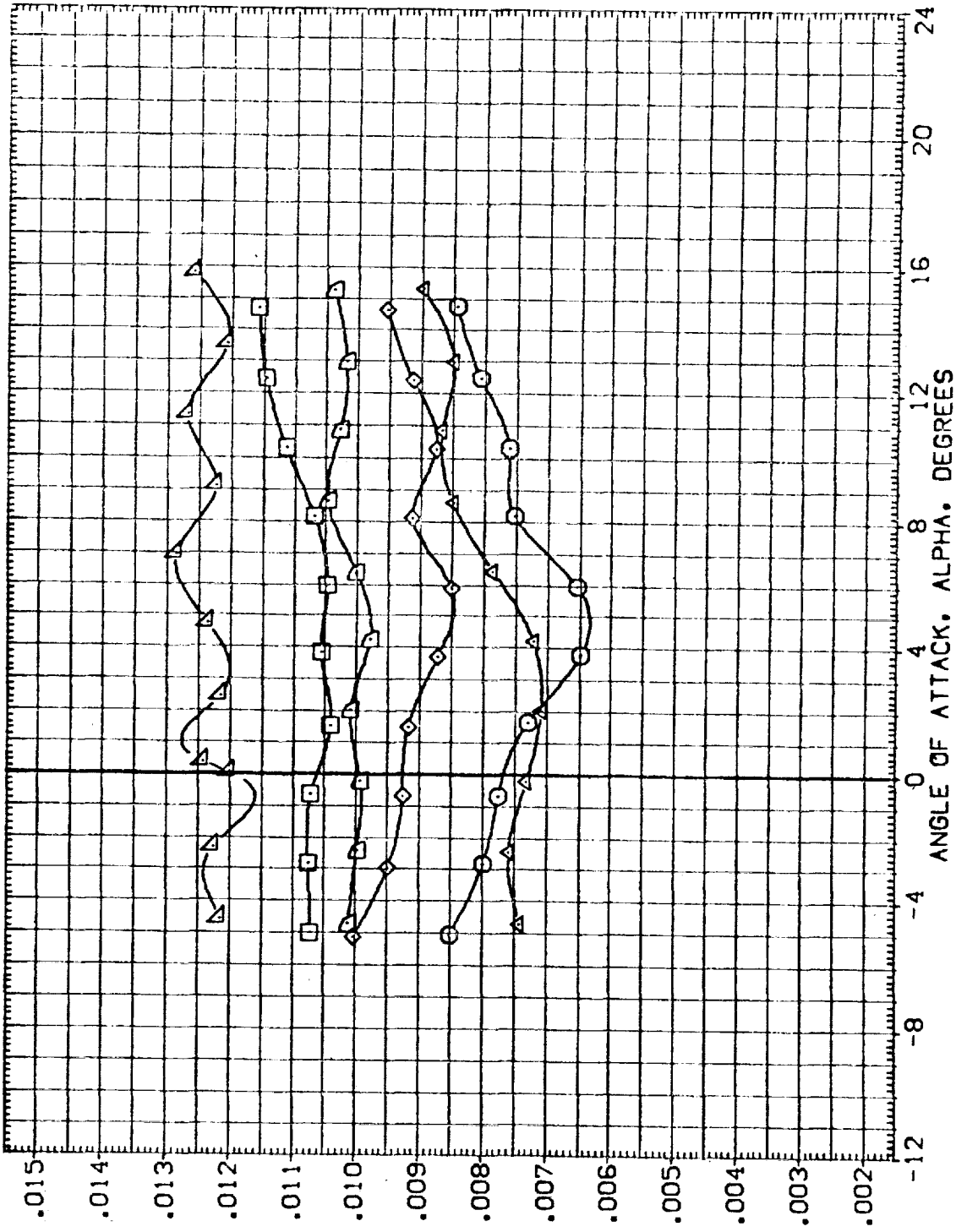


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(FDMACH = .90)

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY LAP

(BEP001)    ARC 66-709 QAS9 QAL1A-(N24 R5 V8)+STRUT+DUM STNG    .000    .000    -11.700

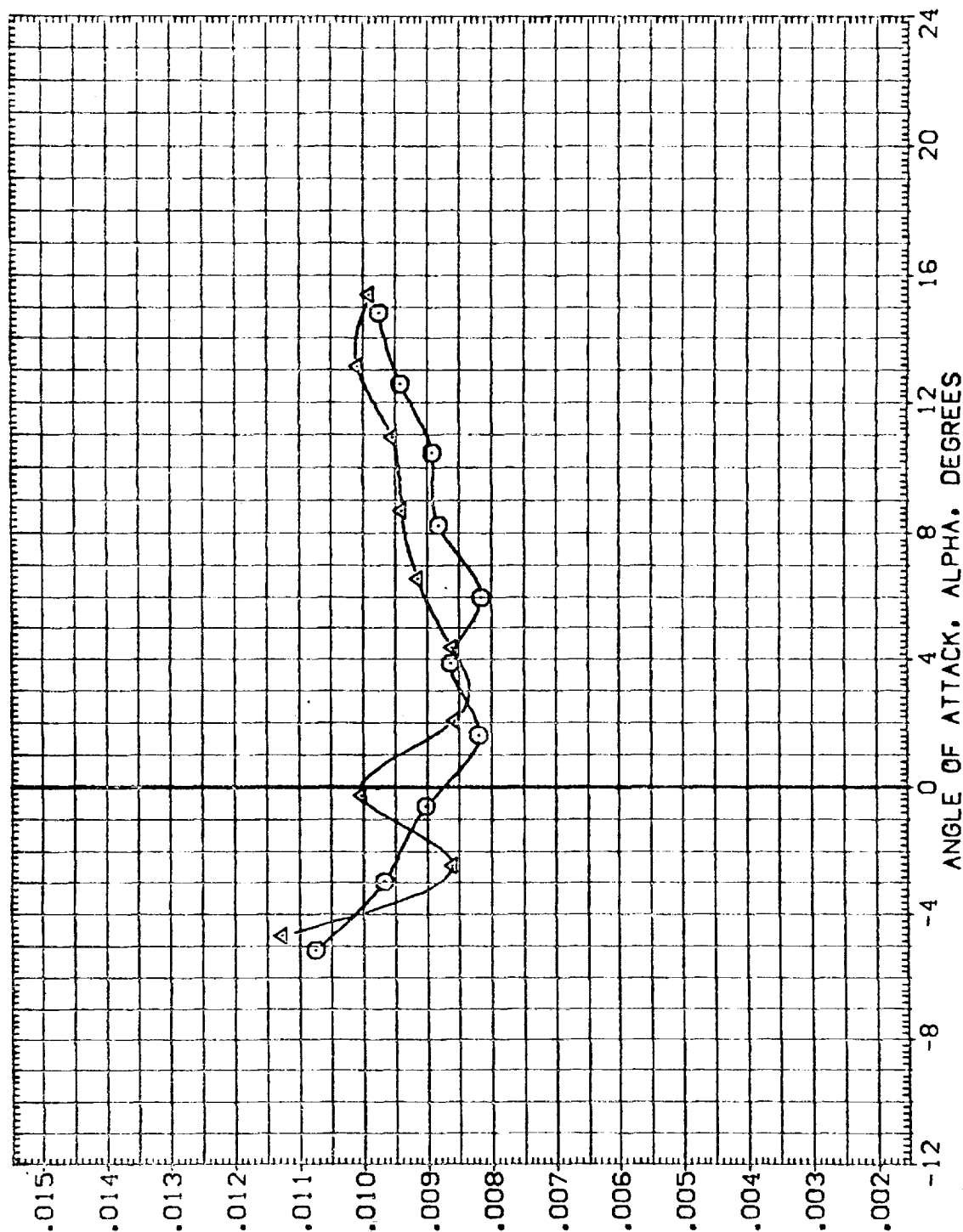
(BEP005)    DATA NOT AVAILABLE    .000    .000    16.300

(BEP006)    DATA NOT AVAILABLE    .000    .000    .000

(BEP012)    ARC 66-709 QAS9 QAL1A-(R5 V8)+STRUT    .000    .000    -11.700

(BEP014)    DATA NOT AVAILABLE    .000    .000    16.300

(BEP015)    DATA NOT AVAILABLE    .000    .000    .000



VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 50.FT.
(BER005)	ARC 66-709 DAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 59.FT.
(BER006)	ARC 66-709 DAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 117.FT.
(BER012)	ARC 66-709 DAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 1262.55 IN.
(BER014)	ARC 66-709 DAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP .0000 0 IN.
(BER015)	ARC 66-709 DAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	ZMRP -.3750 37.5 IN.
					SCALE .0150

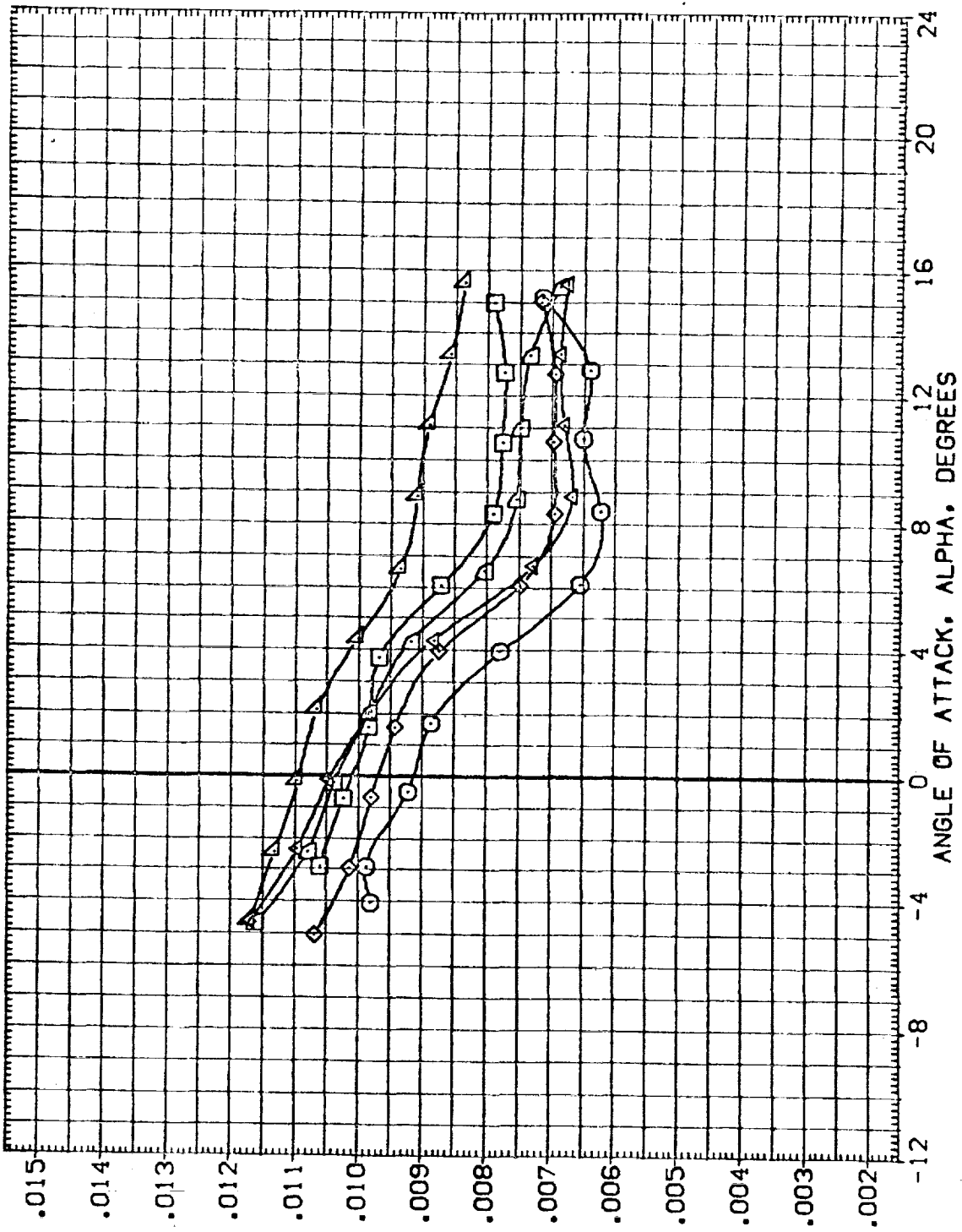


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY FLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY FLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

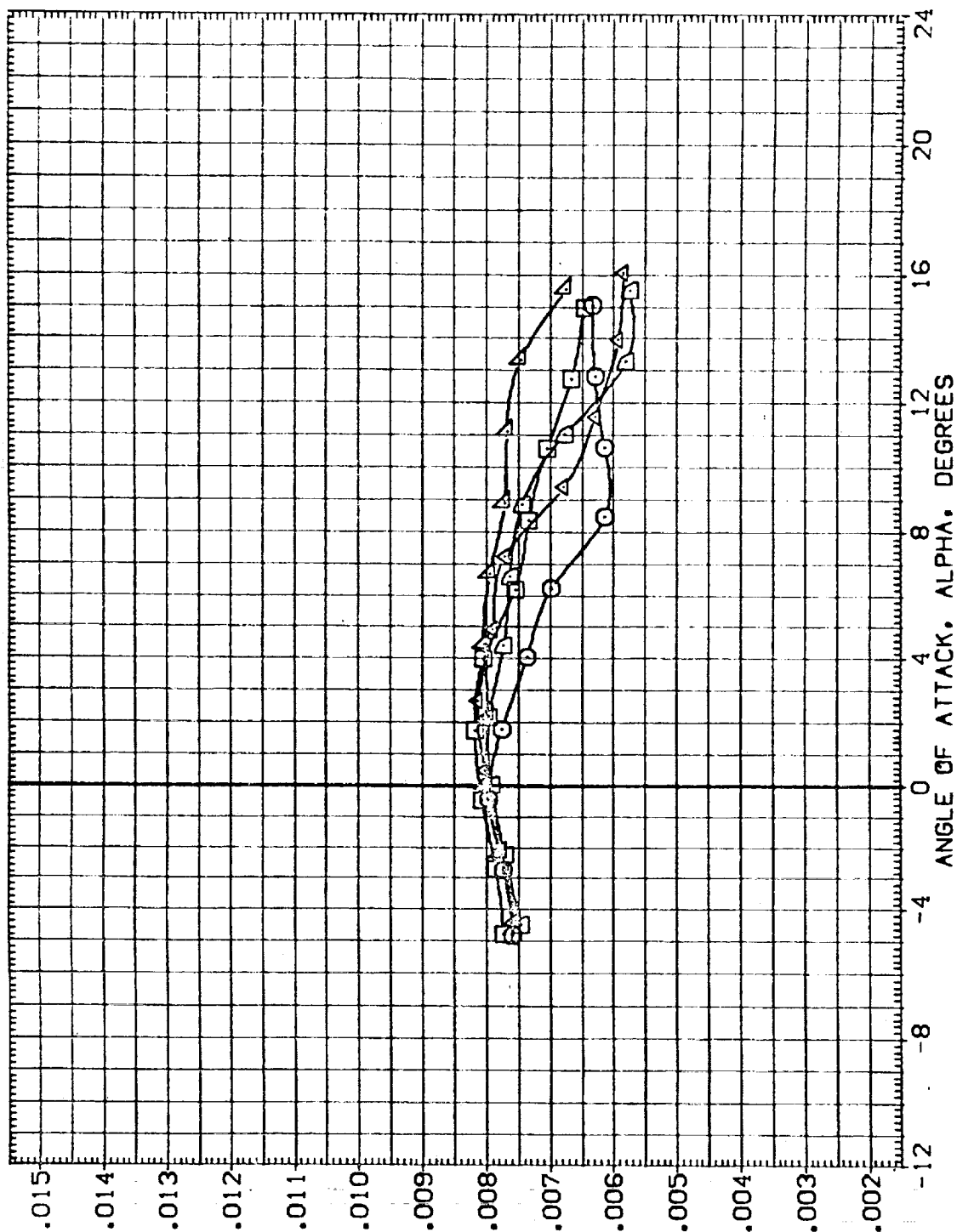


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF 50. FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF 59.35 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

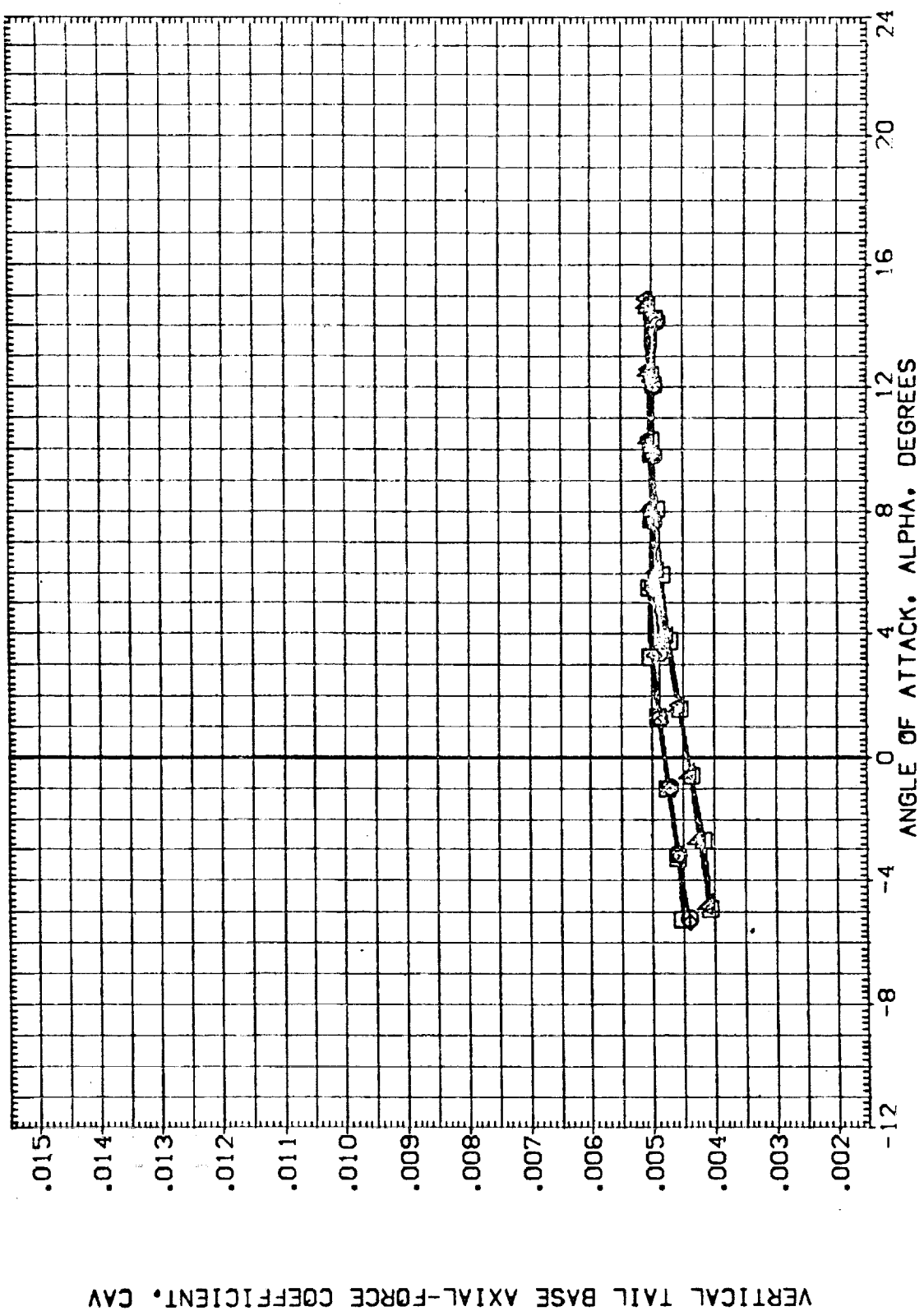
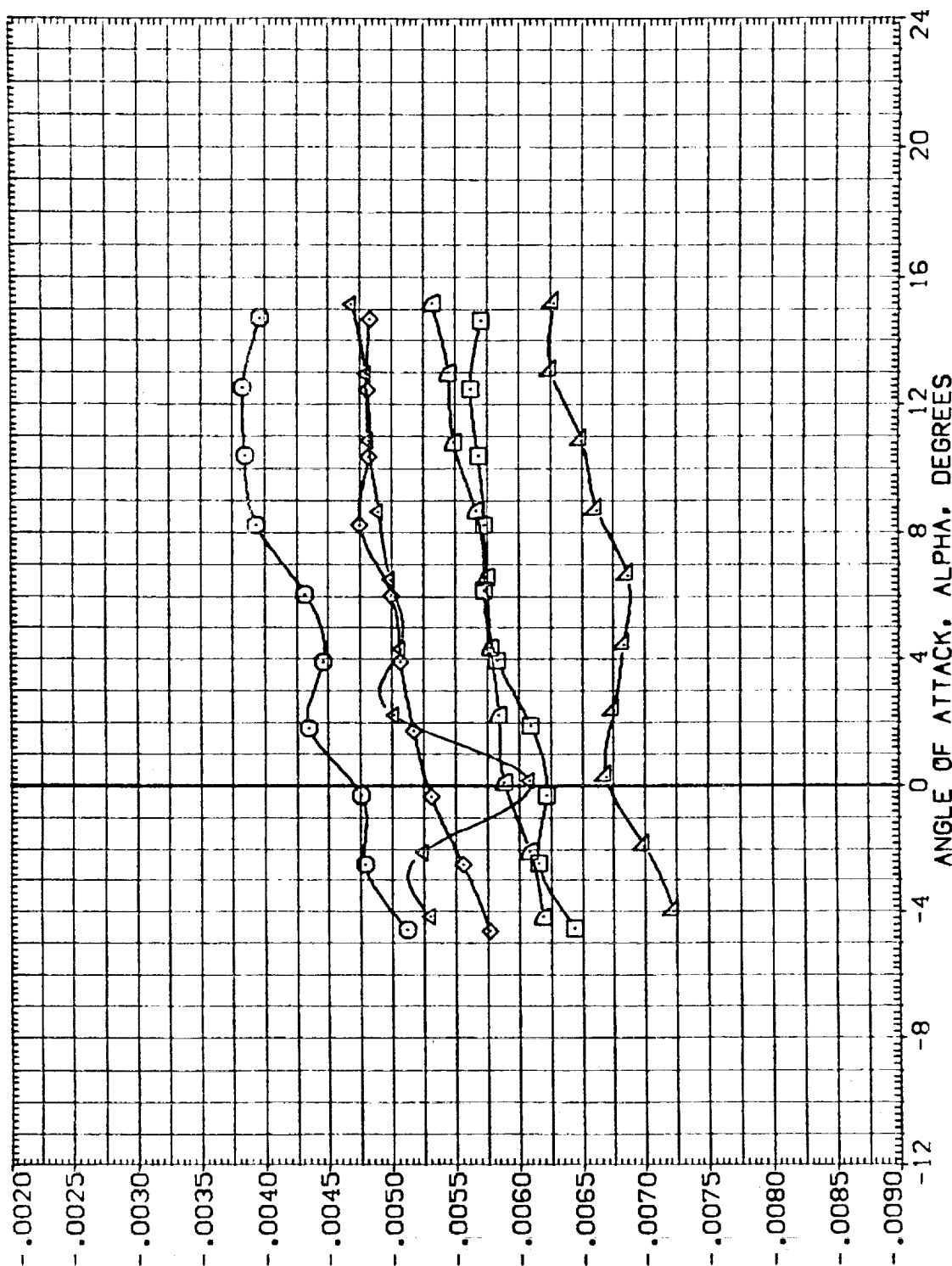


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



VERTICAL TAIL BASE NORMAL-FORCE COEFFICIENT, CNV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	SREF	SO.FT.
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF	5935 FT.
(BER005)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	16.300	BREF	1.1710 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	XMRP	12.6255 IN.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP	.0000 IN.
(BER014)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP	-.3750 IN.
(BER015)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE	.0150

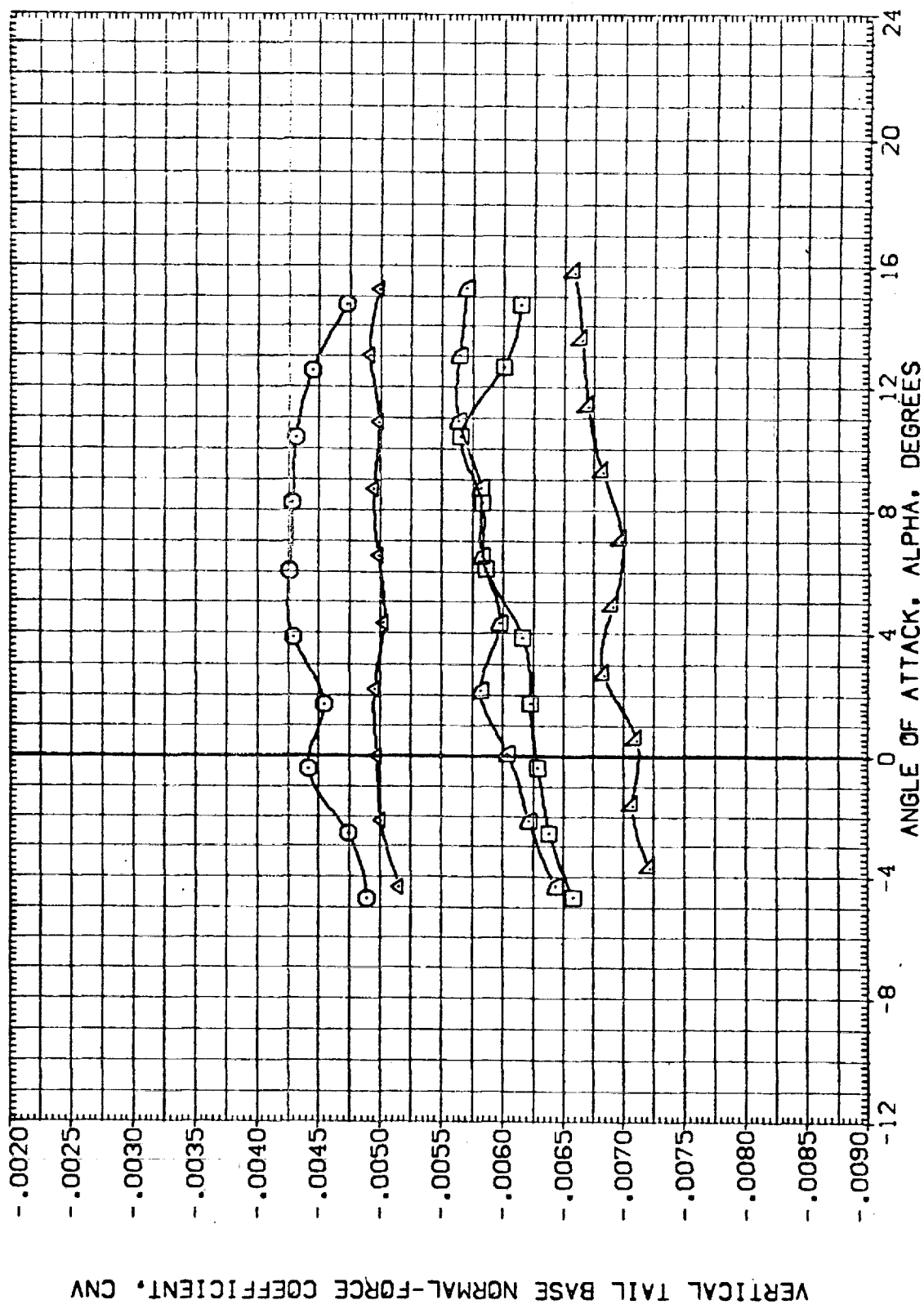
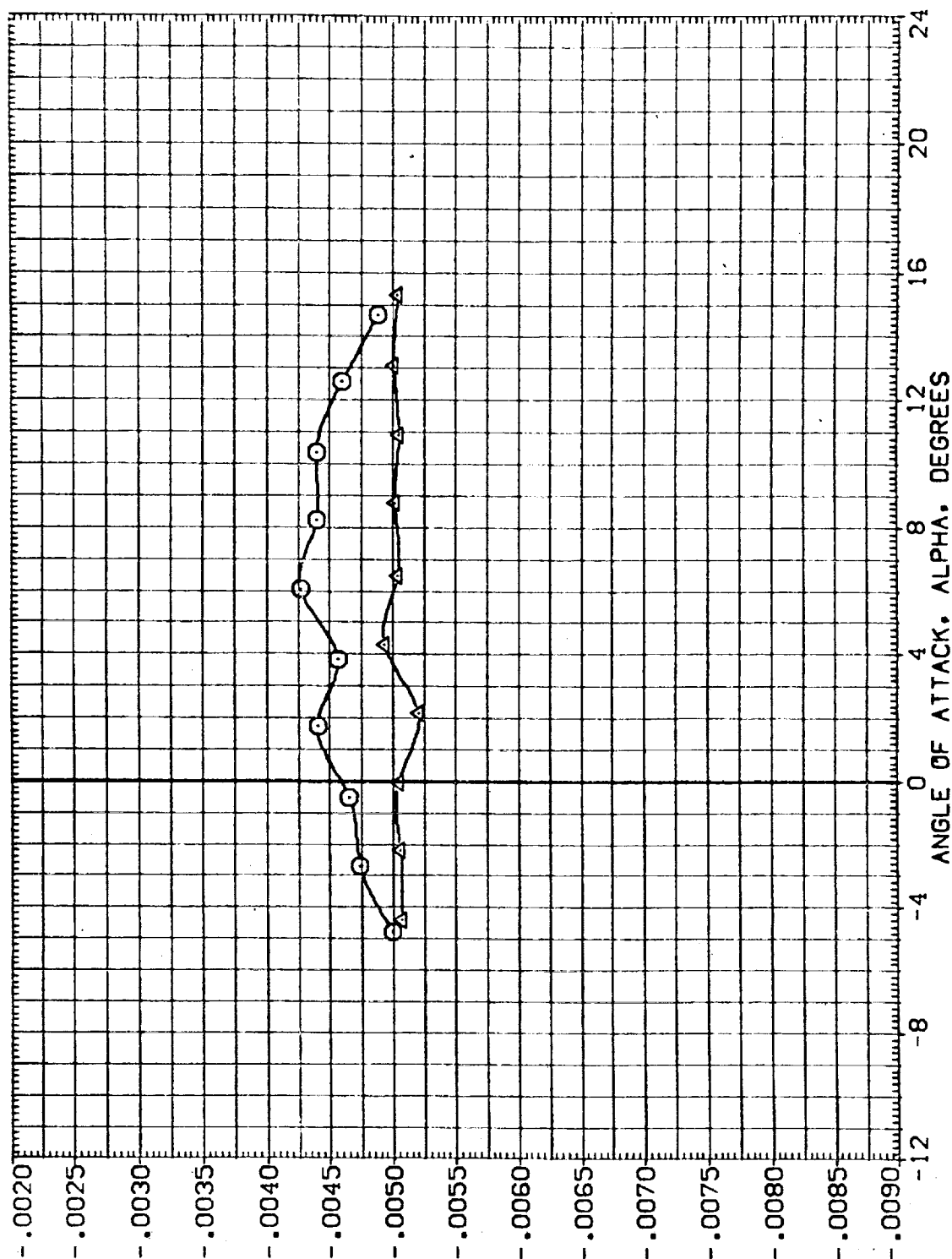


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



VERTICAL TAIL BASE NORMAL-FORCE COEFFICIENT, CNV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP 12.6255 IN.
(BER014)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP .0000 IN.
(BER015)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

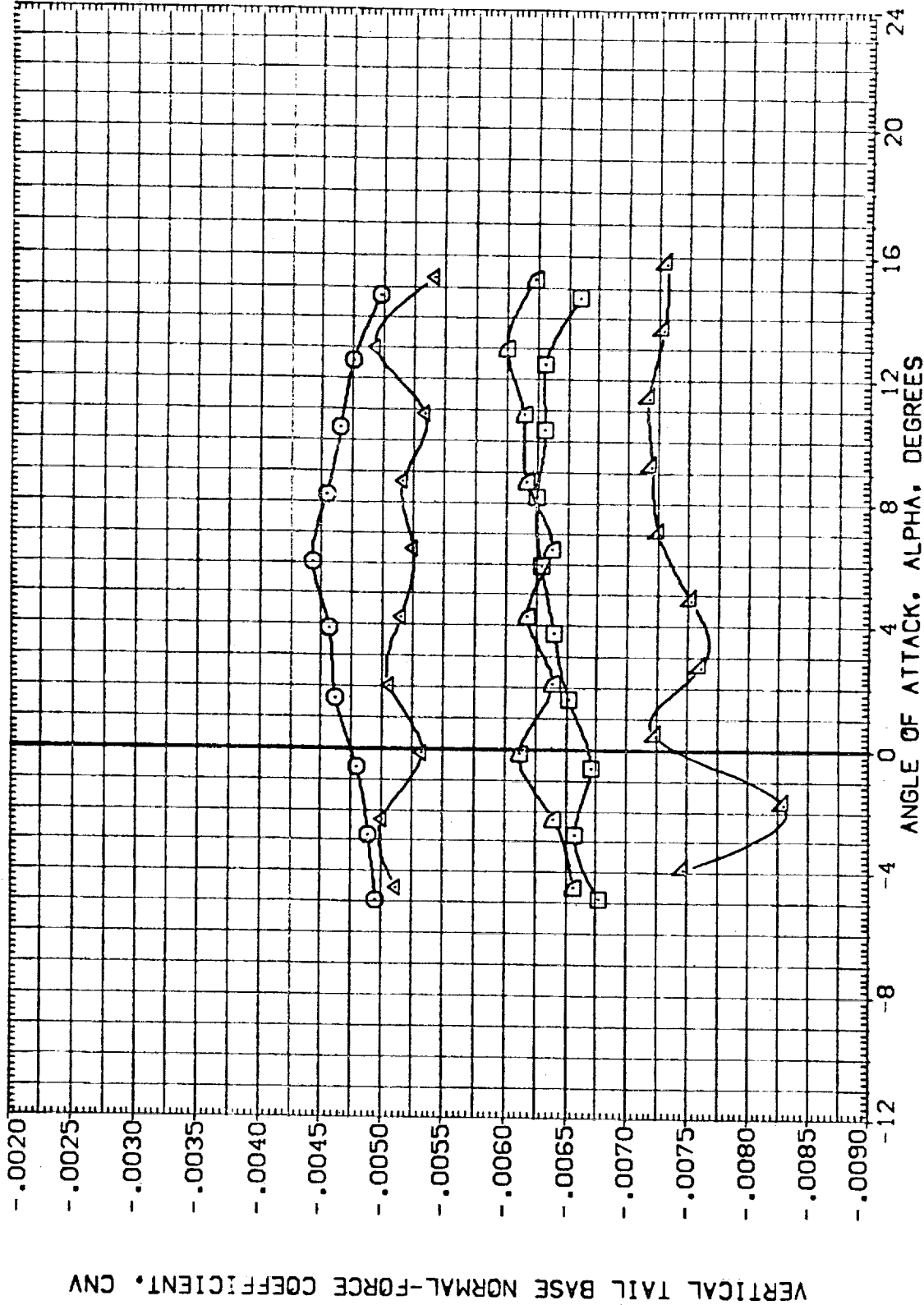


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

COMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

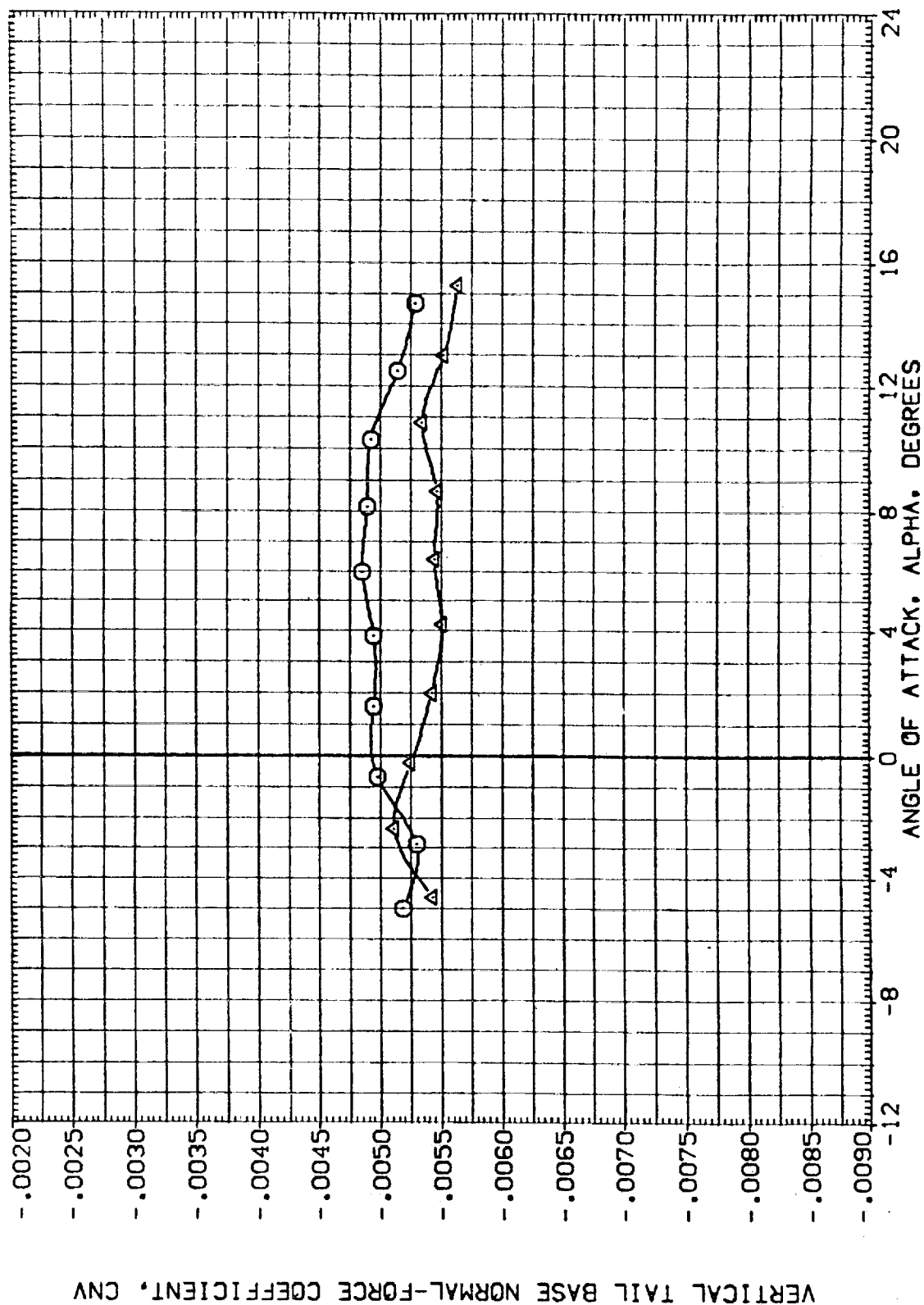


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(BER001)    ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT+OLM STNG

(BER005)    ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT+OLM STNG

(BER006)    ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT+OLM STNG

(BER012)    ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT

(BER014)    ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT

(BER015)    ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    .000    16.300

.000    .000    16.300

.000    .000    -11.700

.000    .000    16.300

.000    .000    16.300

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    -.0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

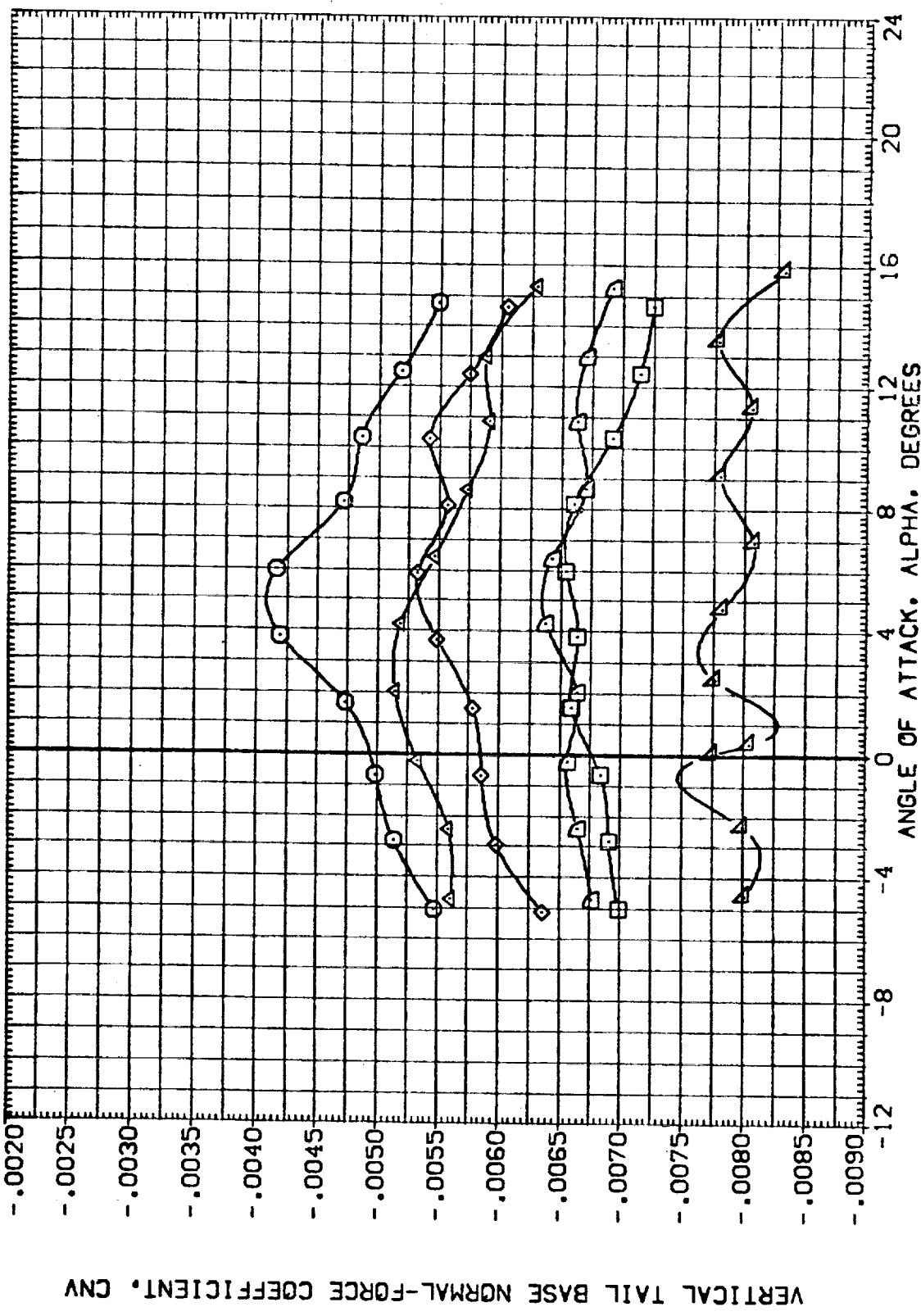


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP    REFERENCE INFORMATION

(BER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER008)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

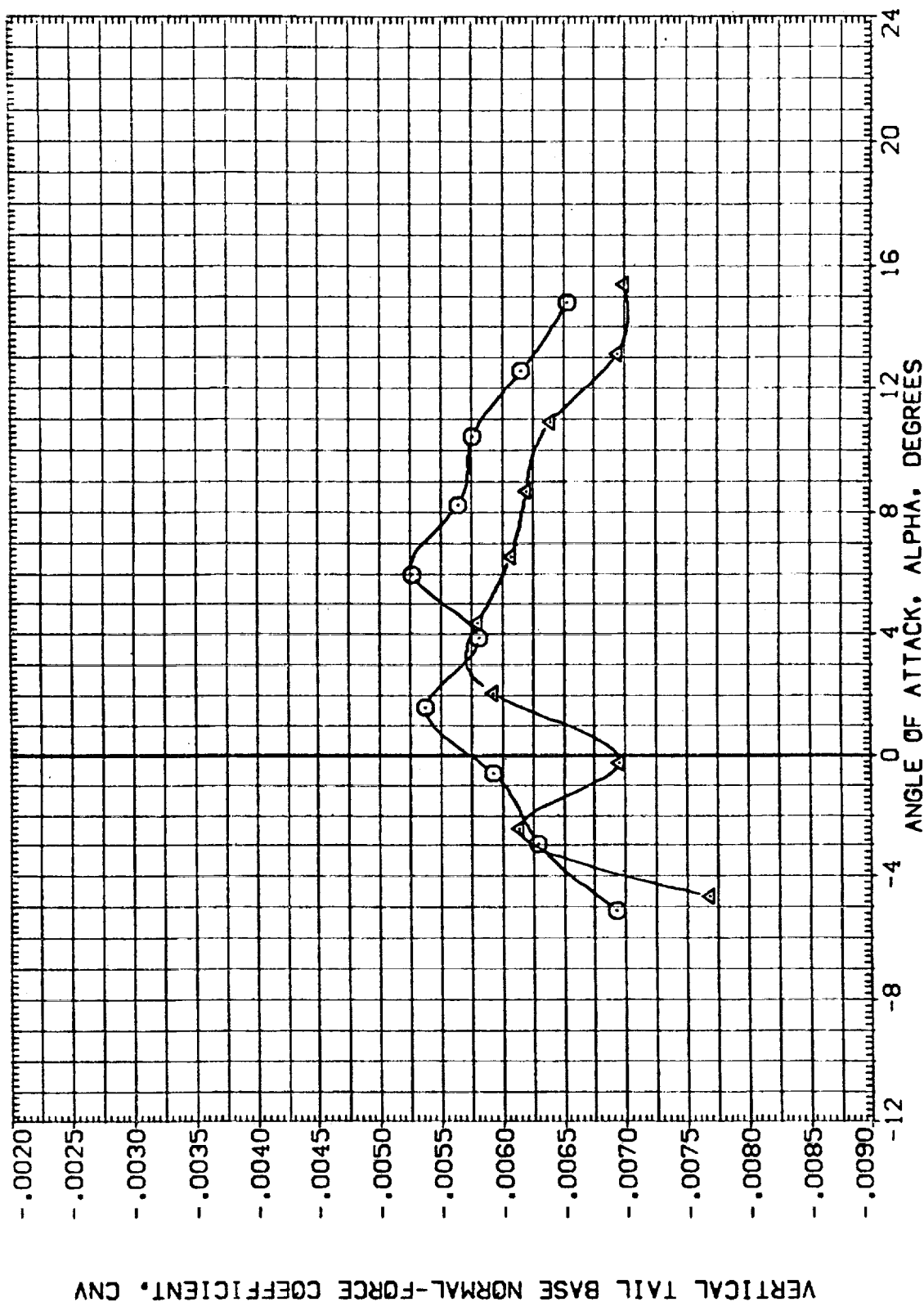


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

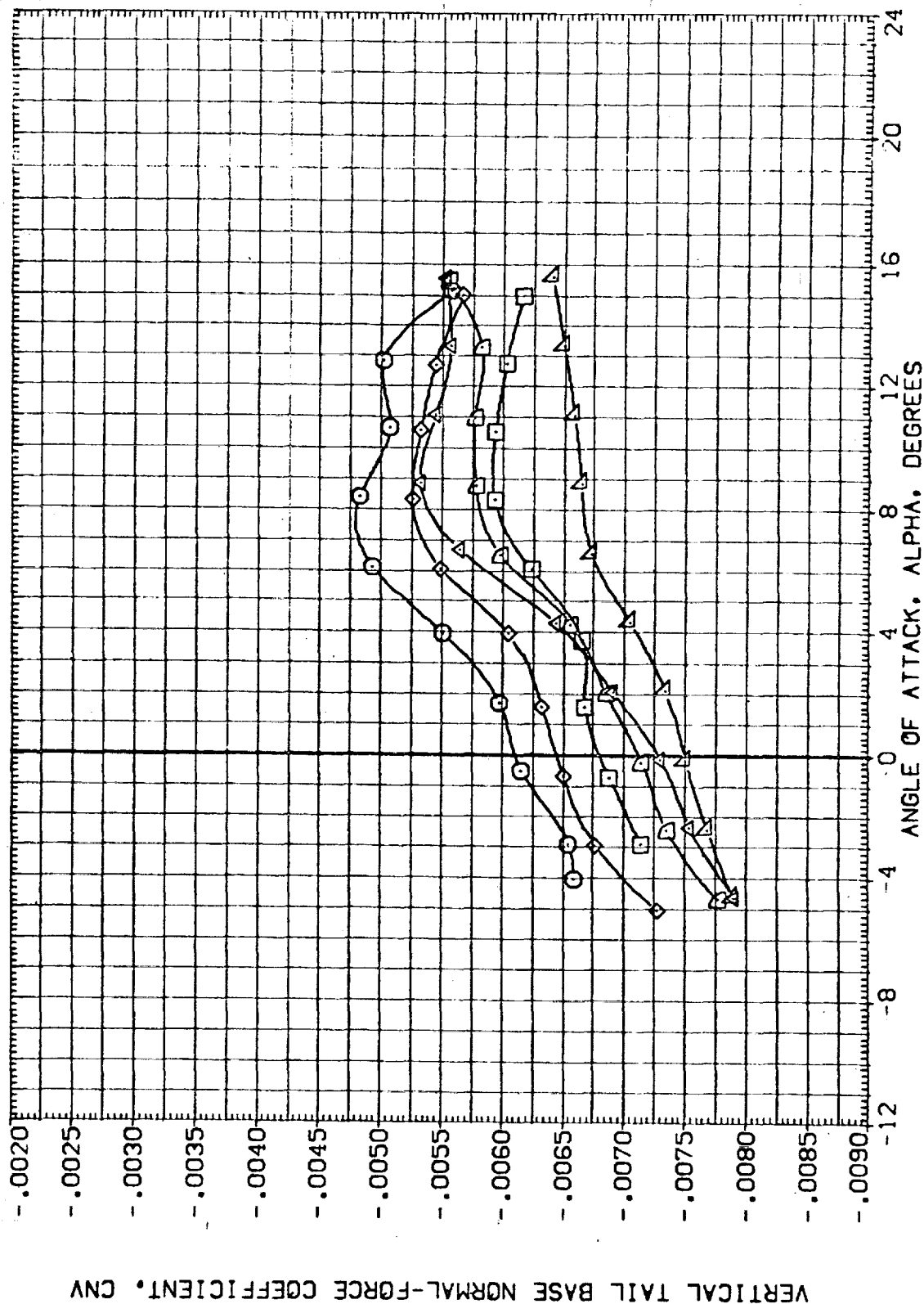


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(HJ)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

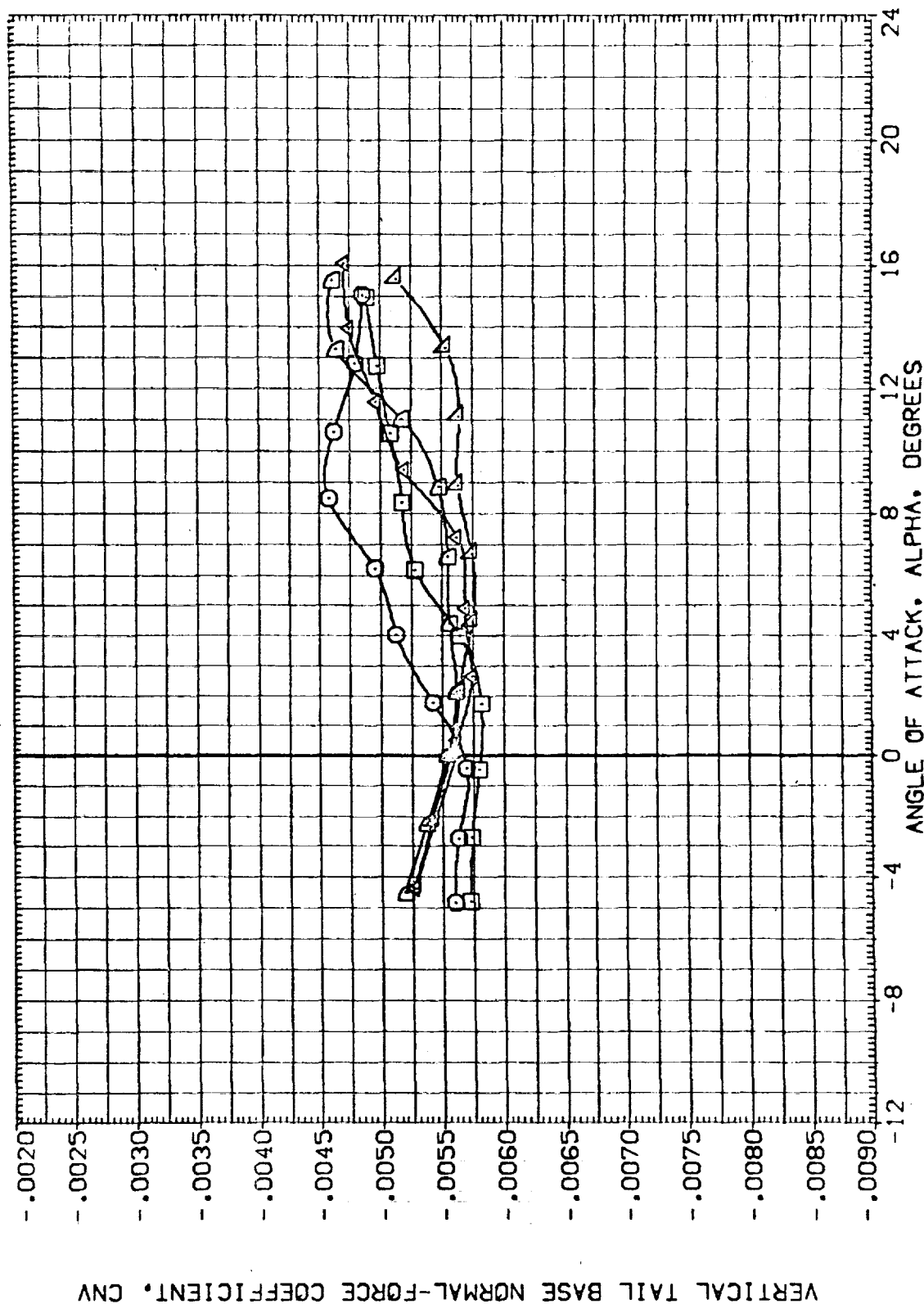


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

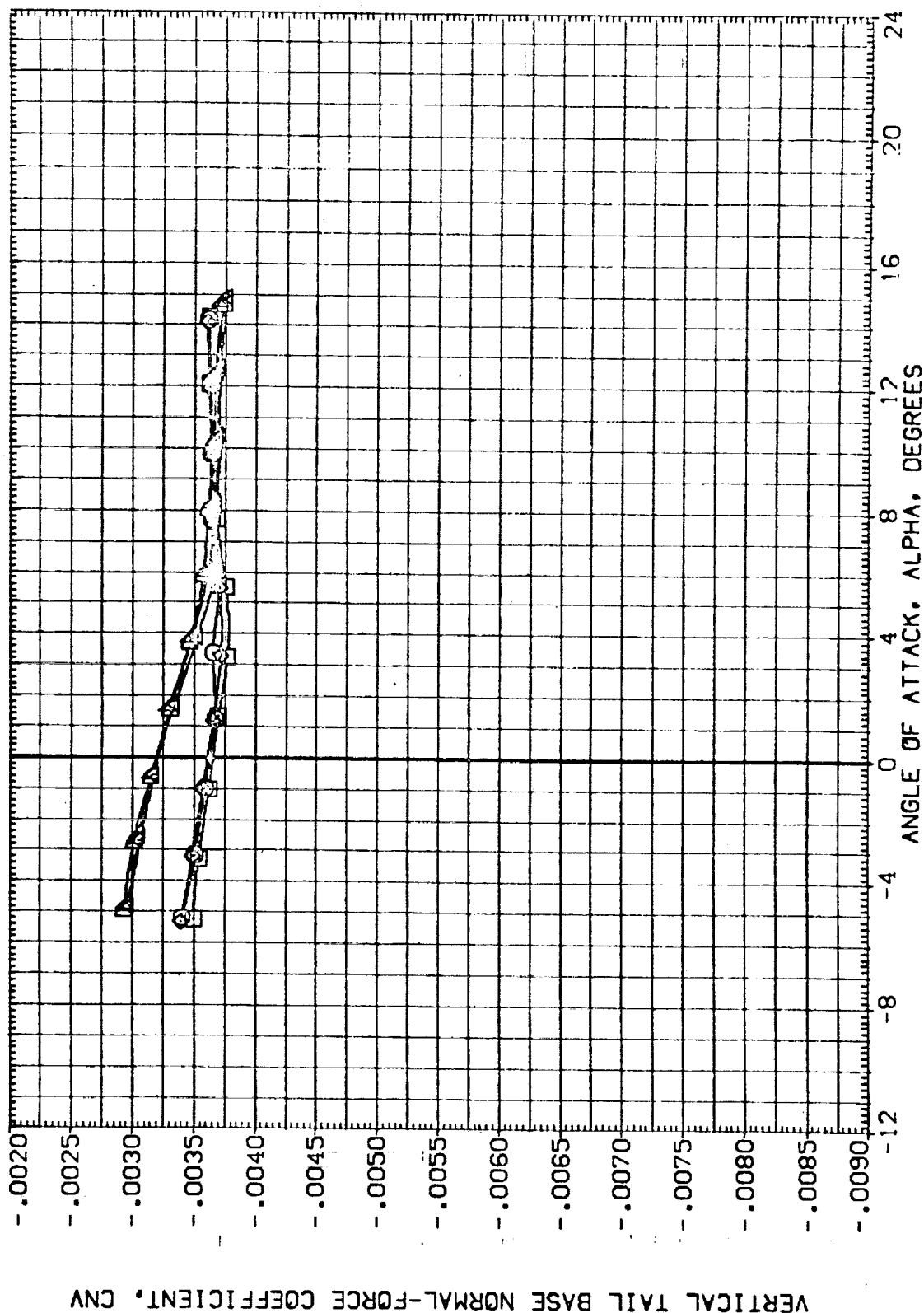


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDF LAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

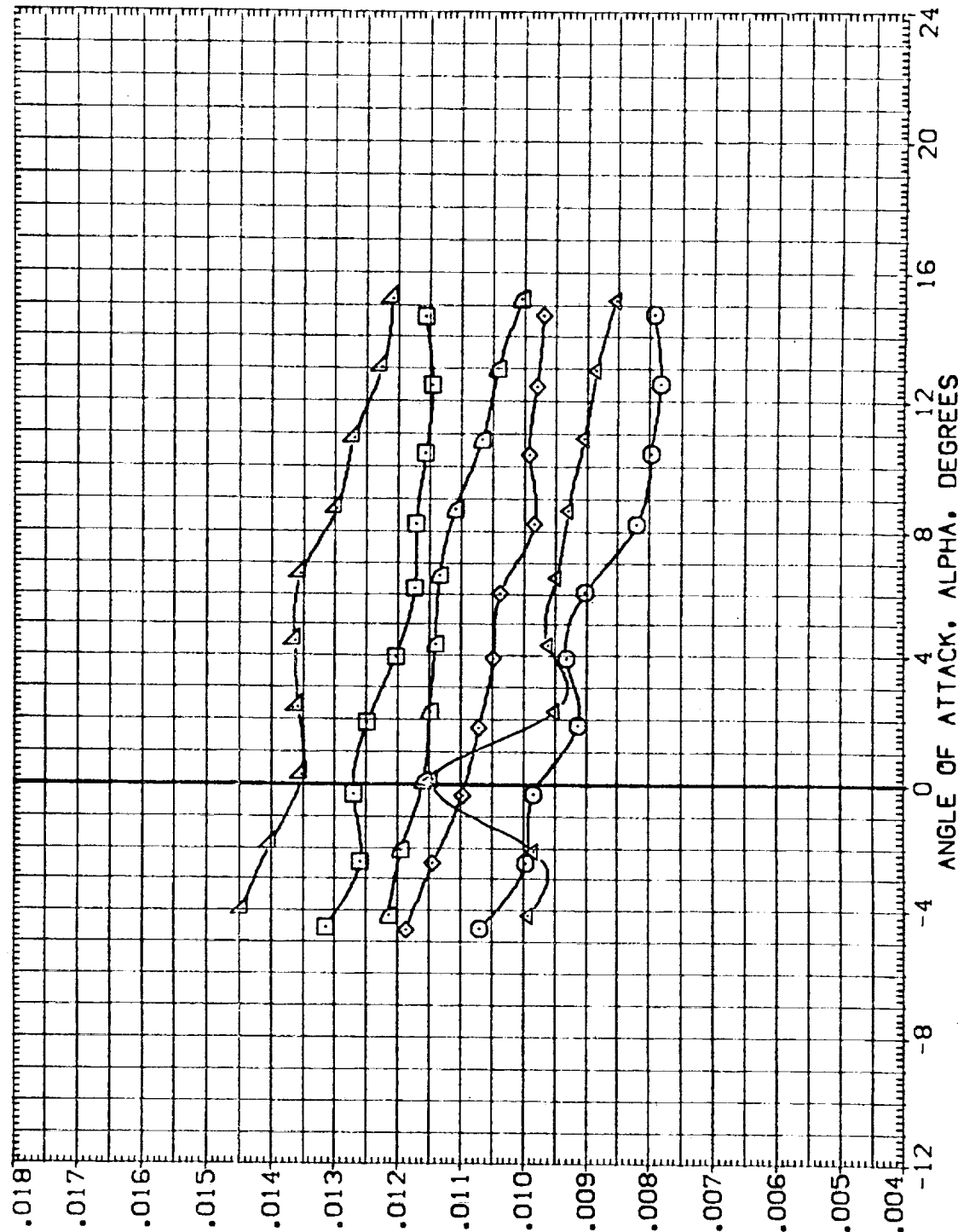


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	ZMRP -.3750 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	SCALE .0150

BOFLAP    ELEVON    BETA

-11.700	.000	.000
16.300	.000	.000
.000	.000	.000
-11.700	.000	.000
16.300	.000	.000
.000	.000	.000

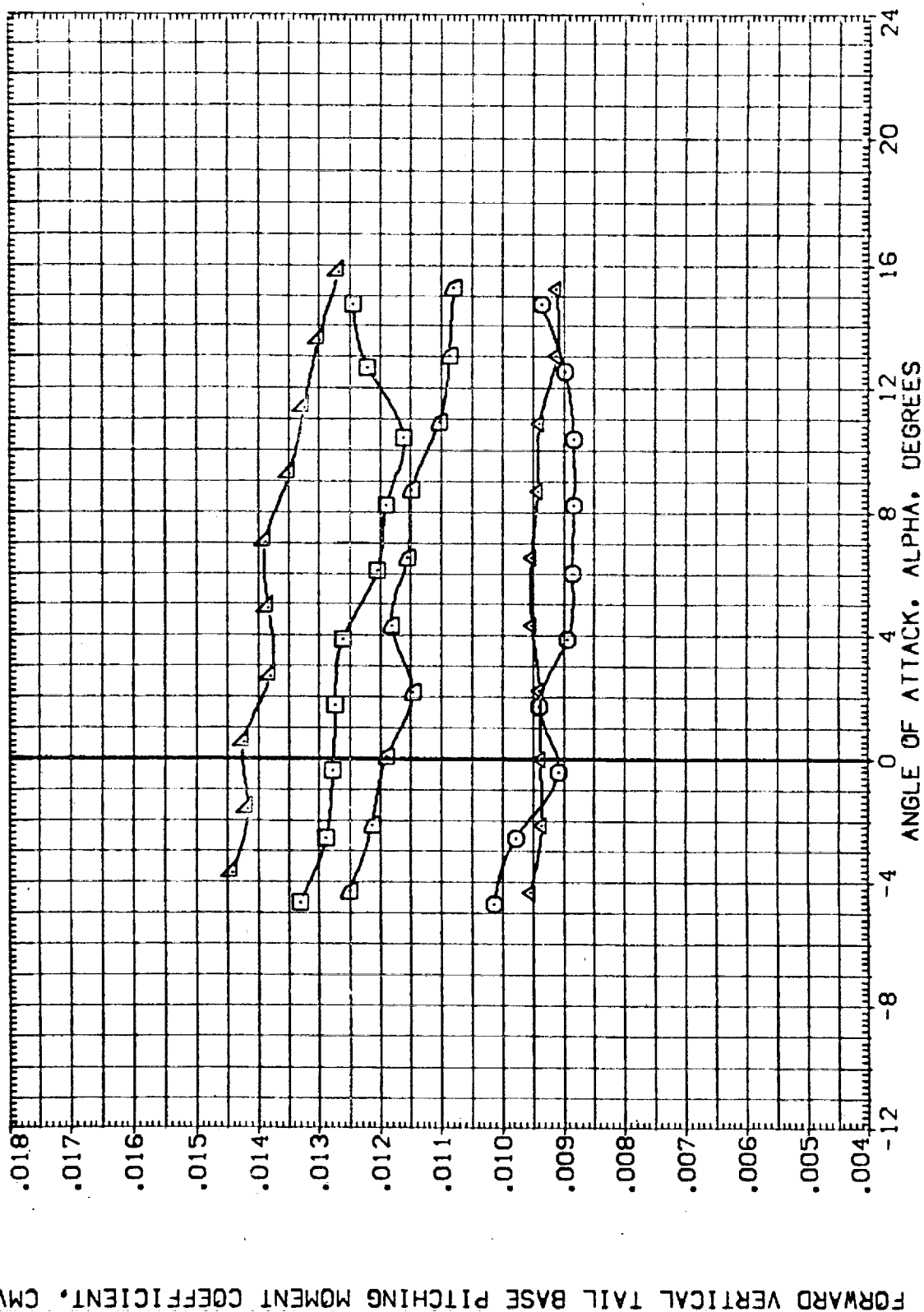


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

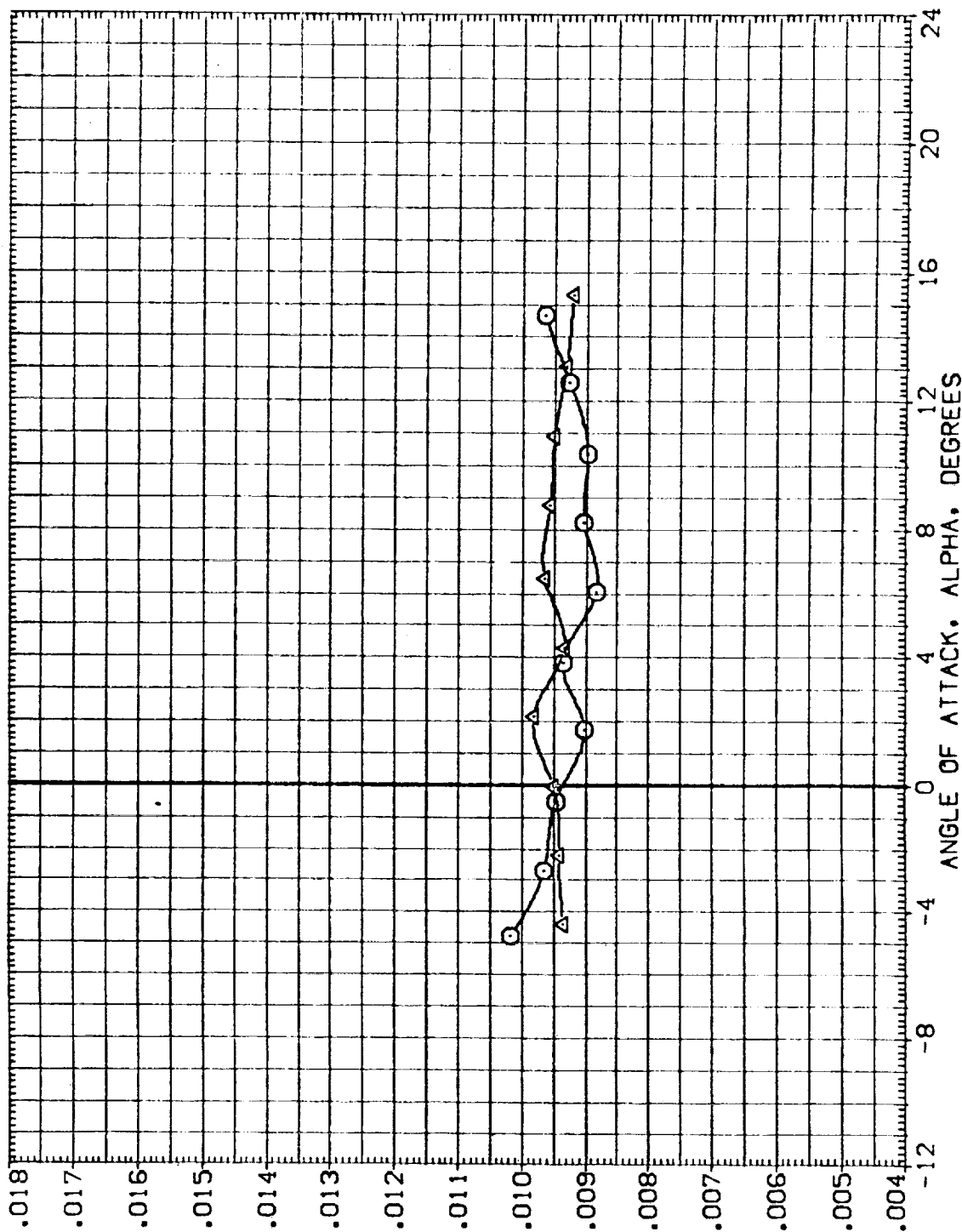
(B)MACH = .70

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS VB1)+STRUT+DUM STING	SREF	.6053	SQ.FT.
(BER005)	DATA NOT AVAILABLE	LREF	.5935	FT.
(BER006)	DATA NOT AVAILABLE	BREF	1.1710	IN.
(BER012)	ARC 66-709 QAS9 0A11A-(RS VB1)+STRUT	XMRP	12.6255	IN.
(BER014)	DATA NOT AVAILABLE	YMRP	.0000	IN.
(BER015)	DATA NOT AVAILABLE	ZMRP	-.3750	IN.
		SCALE	.0150	

BETA    ELEVON    BOFLAP

.000	.000	-11.700
.000	.000	16.300
.000	.000	.000
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000



FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BDF LAP    REFERENCE INFORMATION

{BER001}    ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT+DM STNG    .000    .000    -11.700    SREF    .6053    50 FT.

{BER005}    ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT+DM STNG    .000    .000    16.300    LREF    .5935    FT.

{BER006}    DATA NOT AVAILABLE    .000    .000    .000    BREF    1.1710    IN.

{BER012}    ARC 66-709 0A59 DAI1A-(RS V81)+STRUT    .000    .000    -11.700    XMRP    12.6255    IN.

{BER014}    ARC 66-709 0A59 DAI1A-(RS V81)+STRUT    .000    .000    16.300    YMRP    .0000    IN.

{BER015}    ARC 66-709 0A59 DAI1A-(RS V81)+STRUT    .000    .000    .000    ZMRP    -.3750    IN.

SCALE    .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CM/FWD

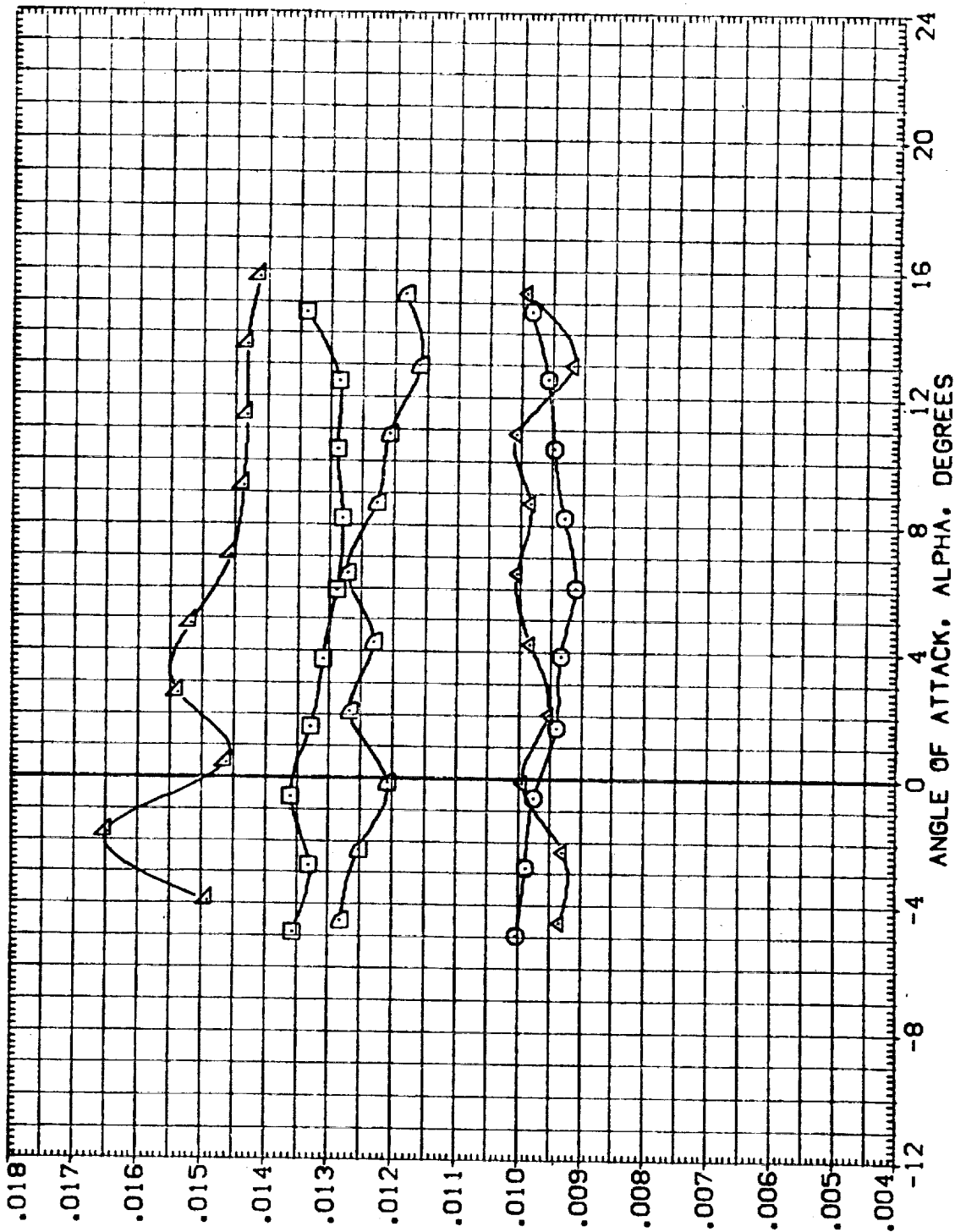


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

COMACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (BER005) DATA NOT AVAILABLE  
 (BER006) DATA NOT AVAILABLE  
 (BER012) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT  
 (BER014) DATA NOT AVAILABLE  
 (BER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFXD

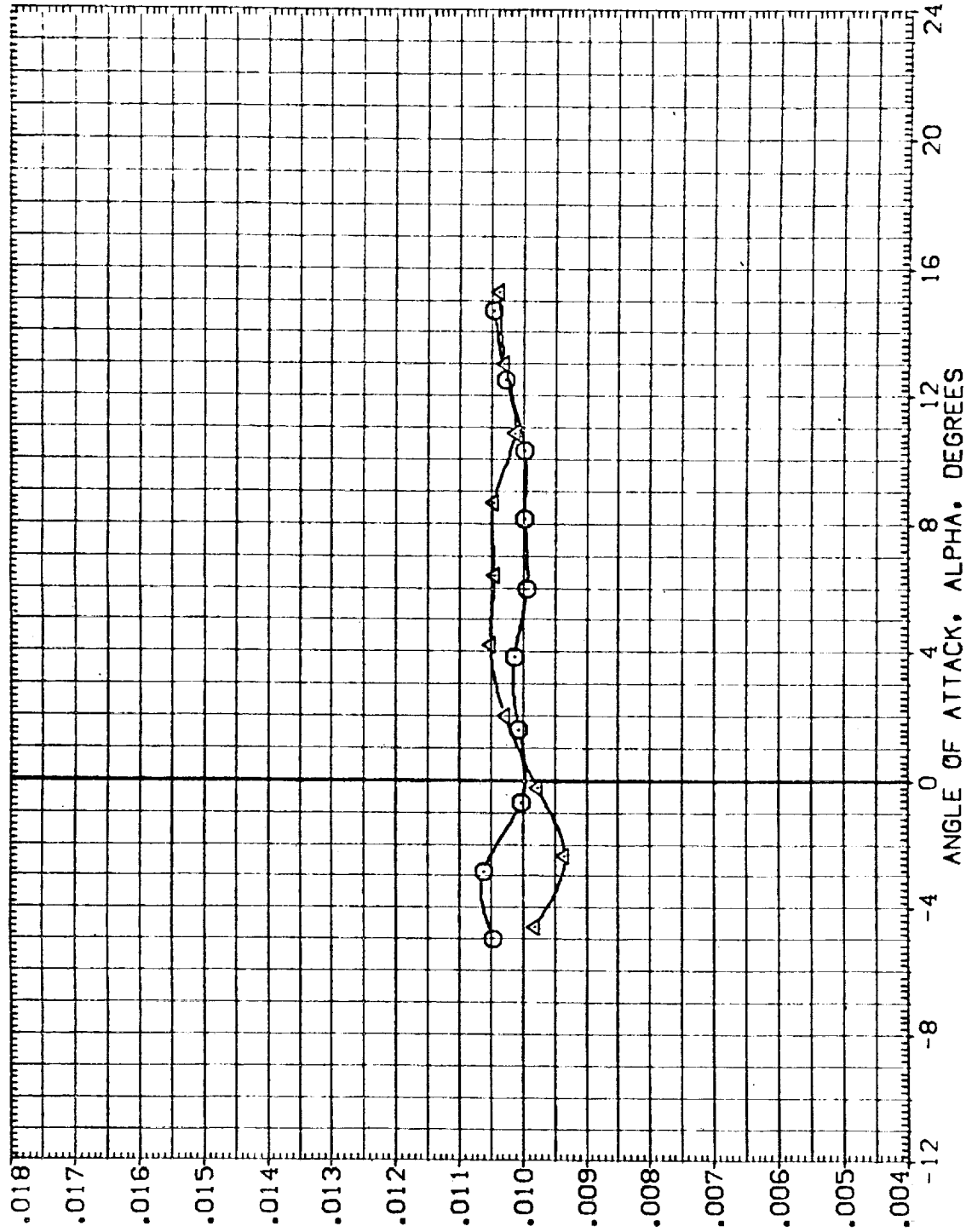


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF 5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

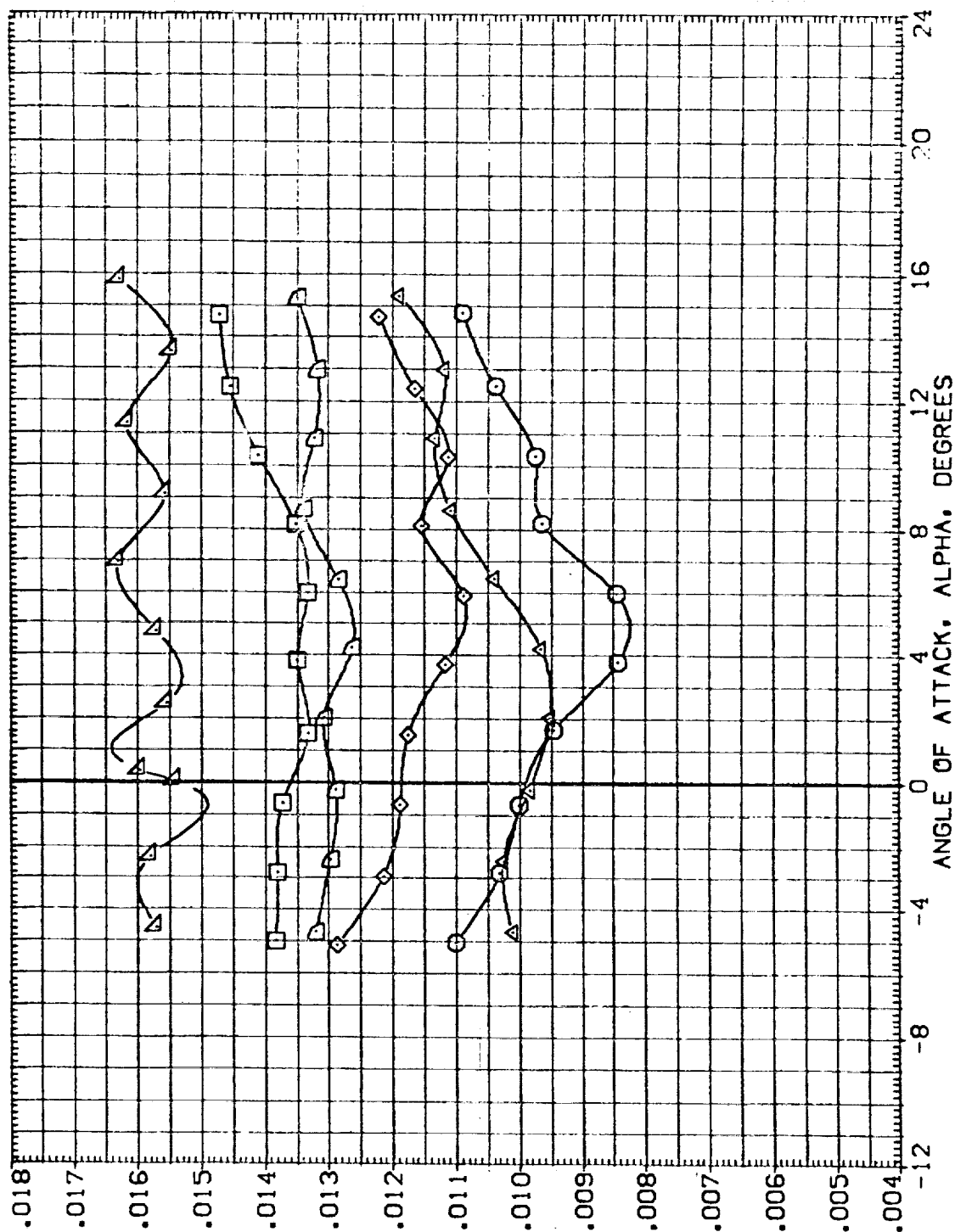


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

CONFIGURATION DESCRIPTION  
 ARC 65-709 OAS9 0A11A-(N24 R5 V81)+STRUT+OUM STAG  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE  
 ARC 65-709 OAS9 0A11A-(R5 V81)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

DATA SET SYMBOL  
 (BER001)  
 (BER005)  
 (BER006)  
 (BER012)  
 (BER014)  
 (BER015)

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWWD

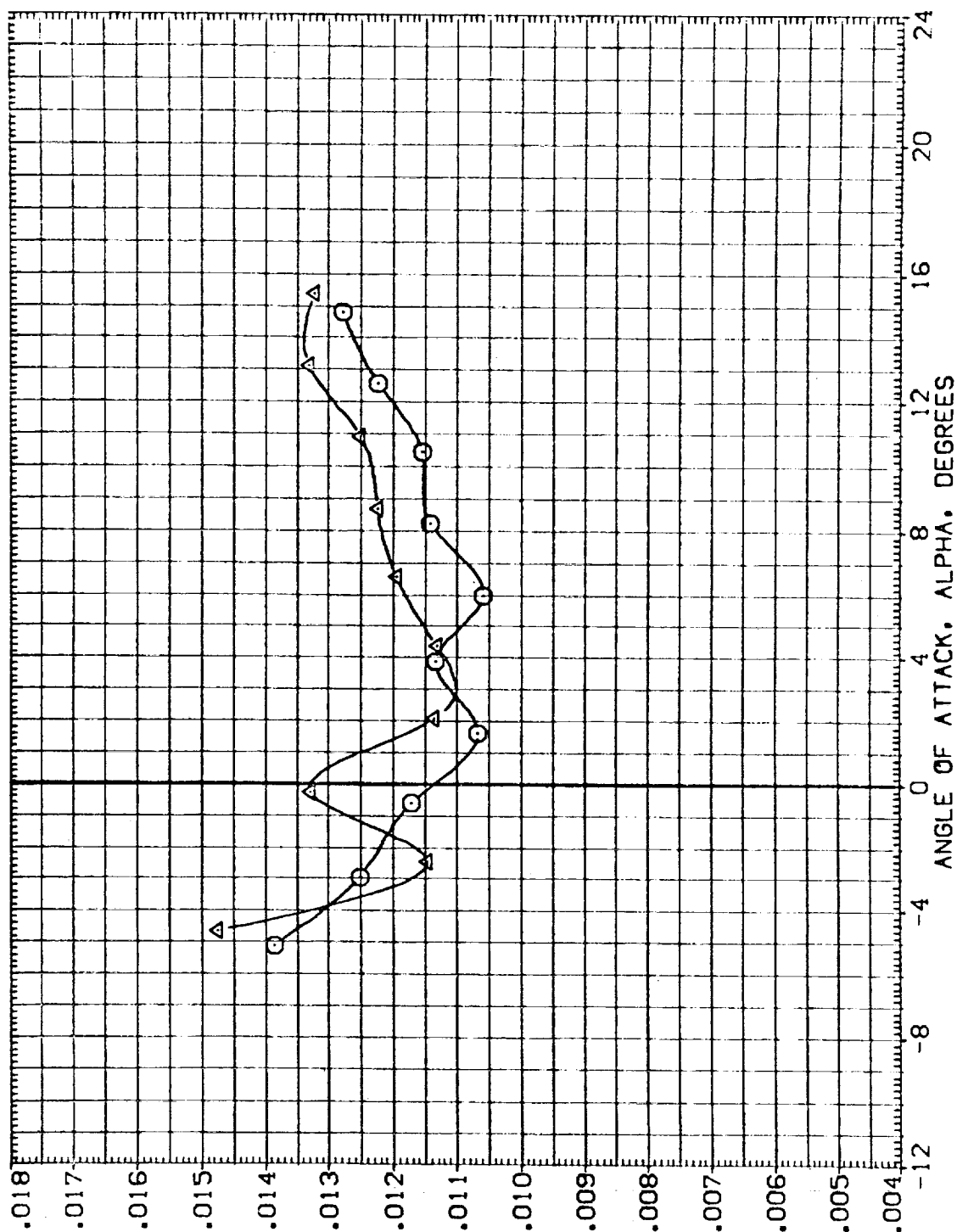


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	-11.700	YMRP 12.6755 IN.
(BER014)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	.000	SCALE -.3750 IN.

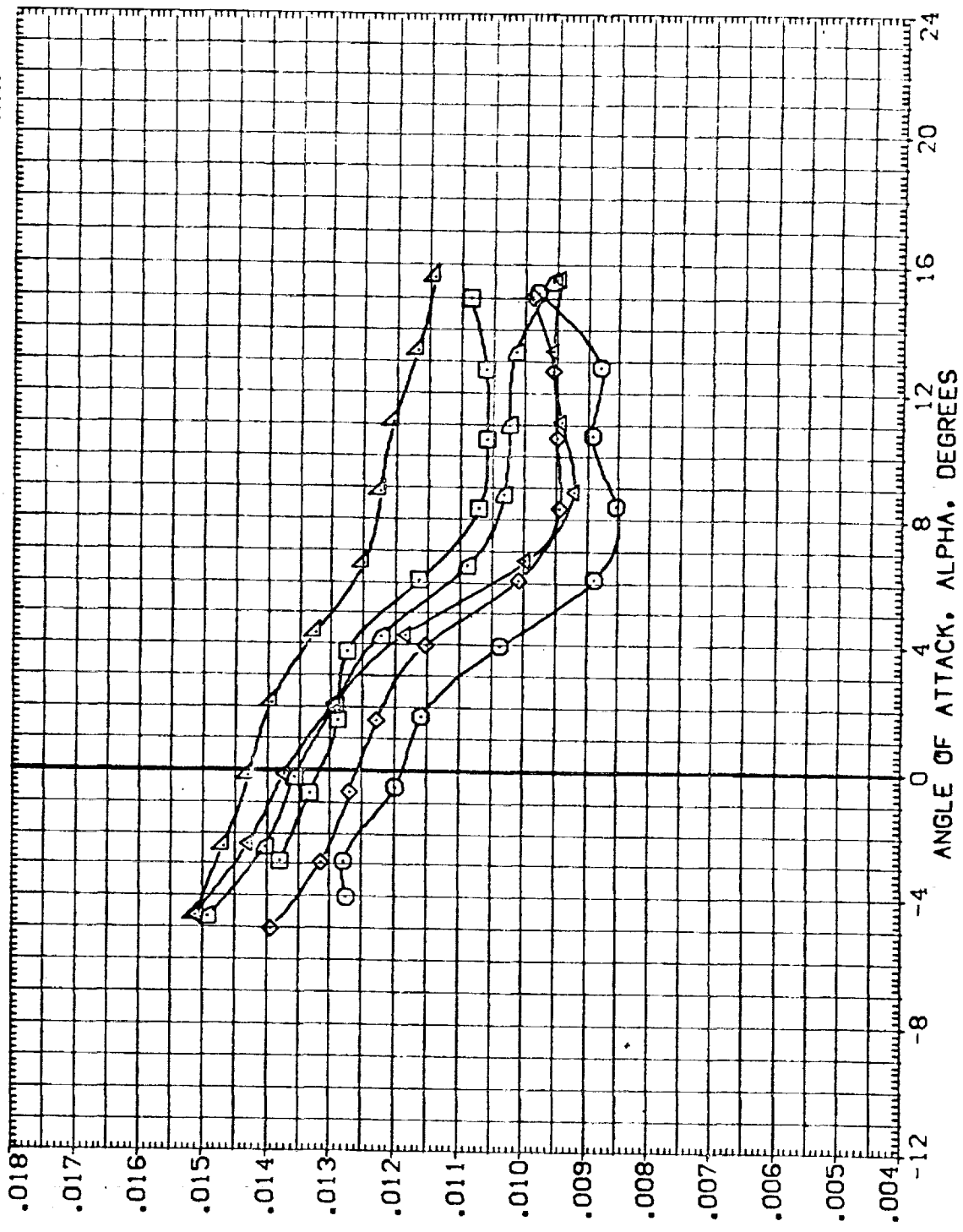


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CH)MACH = 1.21

REFERENCE INFORMATION

SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

BETA

ELEVON







BOFLAP

.000 -11.700  
 .000 16.300  
 .000 .000  
 .000 -11.700  
 .000 16.300  
 .000 .000

CONFIGURATION DESCRIPTION

ARC 66-709 OAS9 DA11A-(N24 RS V81)+STRUT+DUM SING  
 ARC 66-709 OAS9 DA11A-(N24 RS V81)+STRUT+DUM SING  
 DATA NOT AVAILABLE  
 ARC 66-709 OAS9 DA11A-(RS V81)+STRUT  
 ARC 66-709 OAS9 DA11A-(RS V81)+STRUT  
 ARC 66-709 OAS9 DA11A-(RS V81)+STRUT

DATA SET SYMBOL

(BER001)   
 (BER005)   
 (BER006)   
 (BER012)   
 (BER014)   
 (BER015) 

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

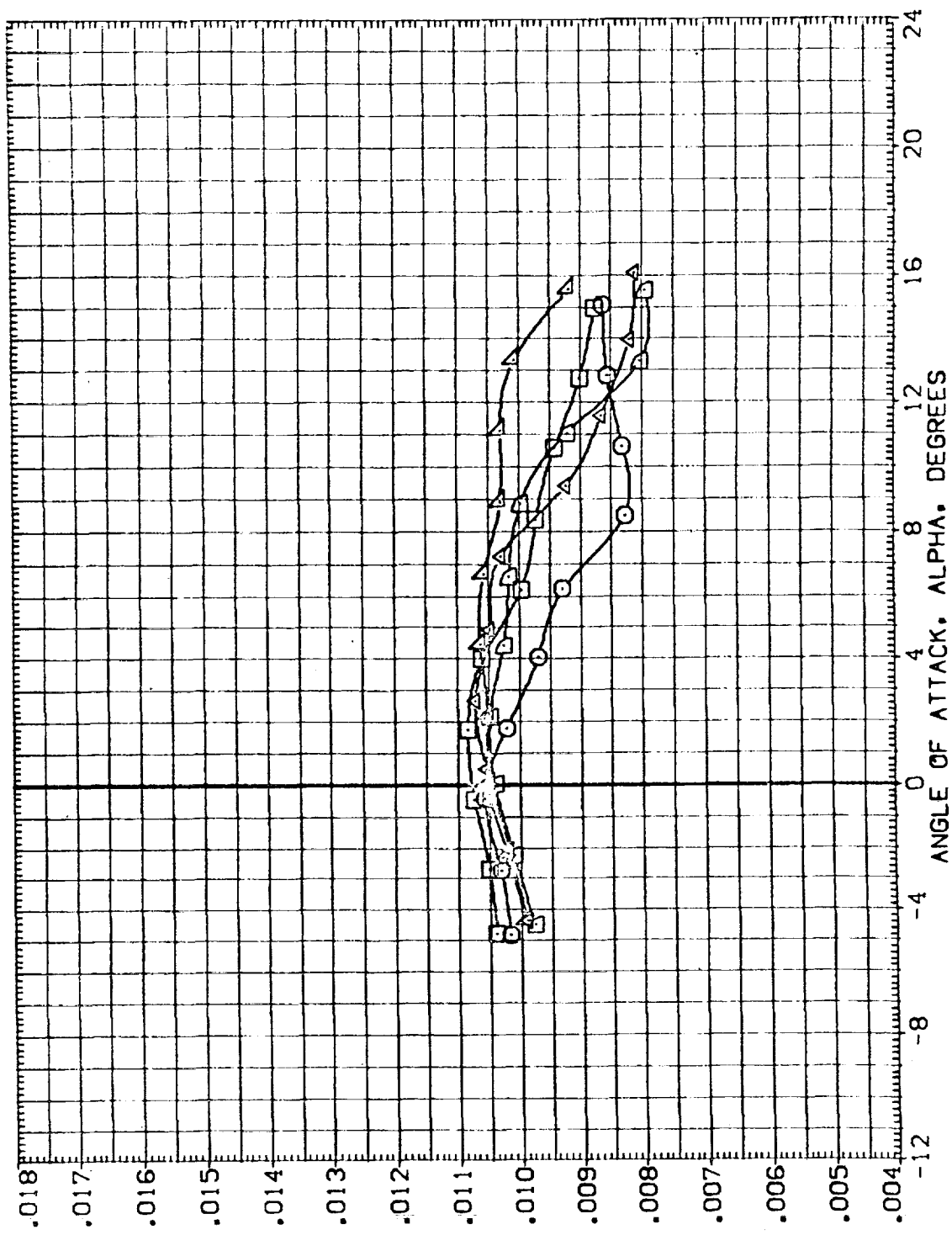


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

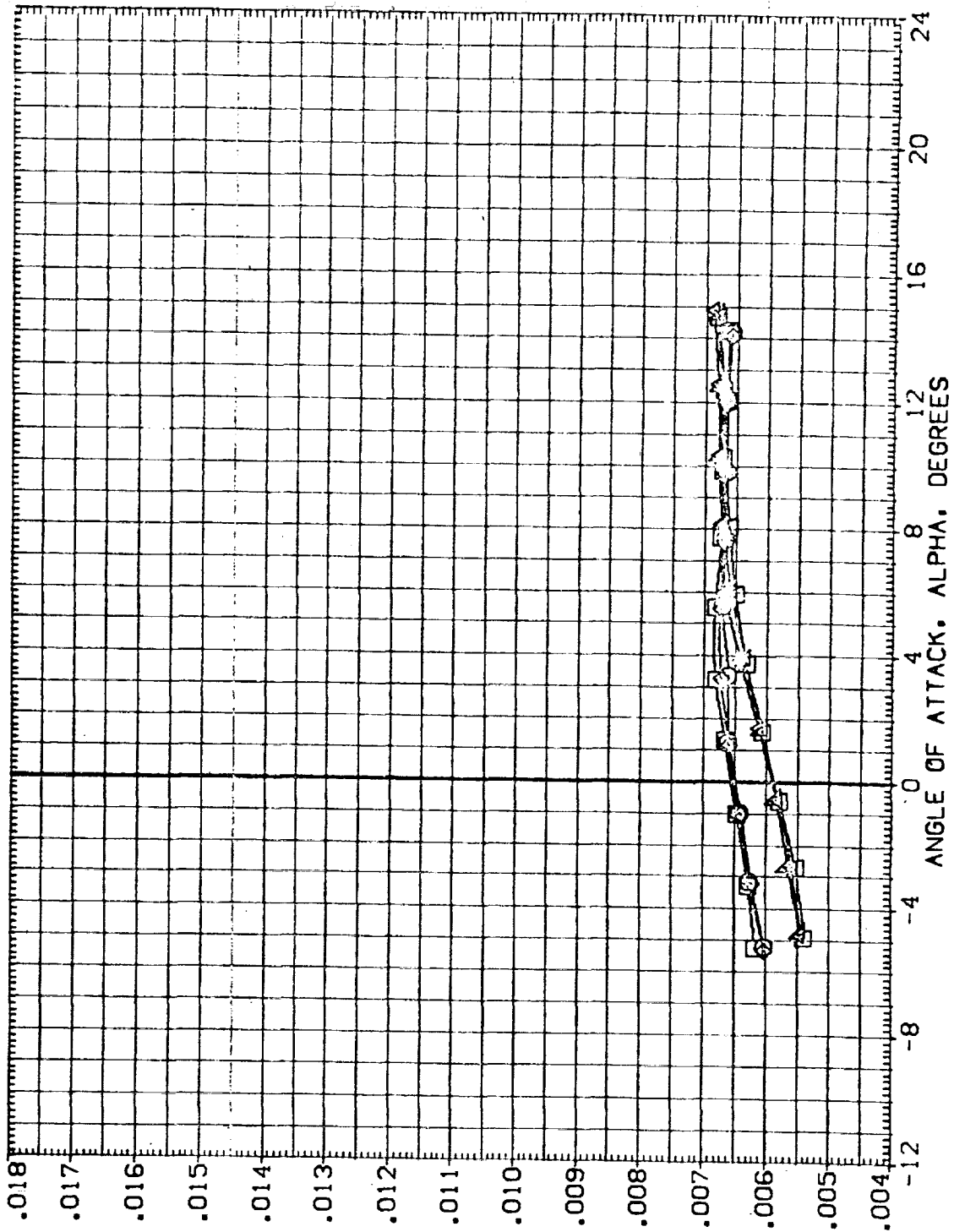


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6265 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

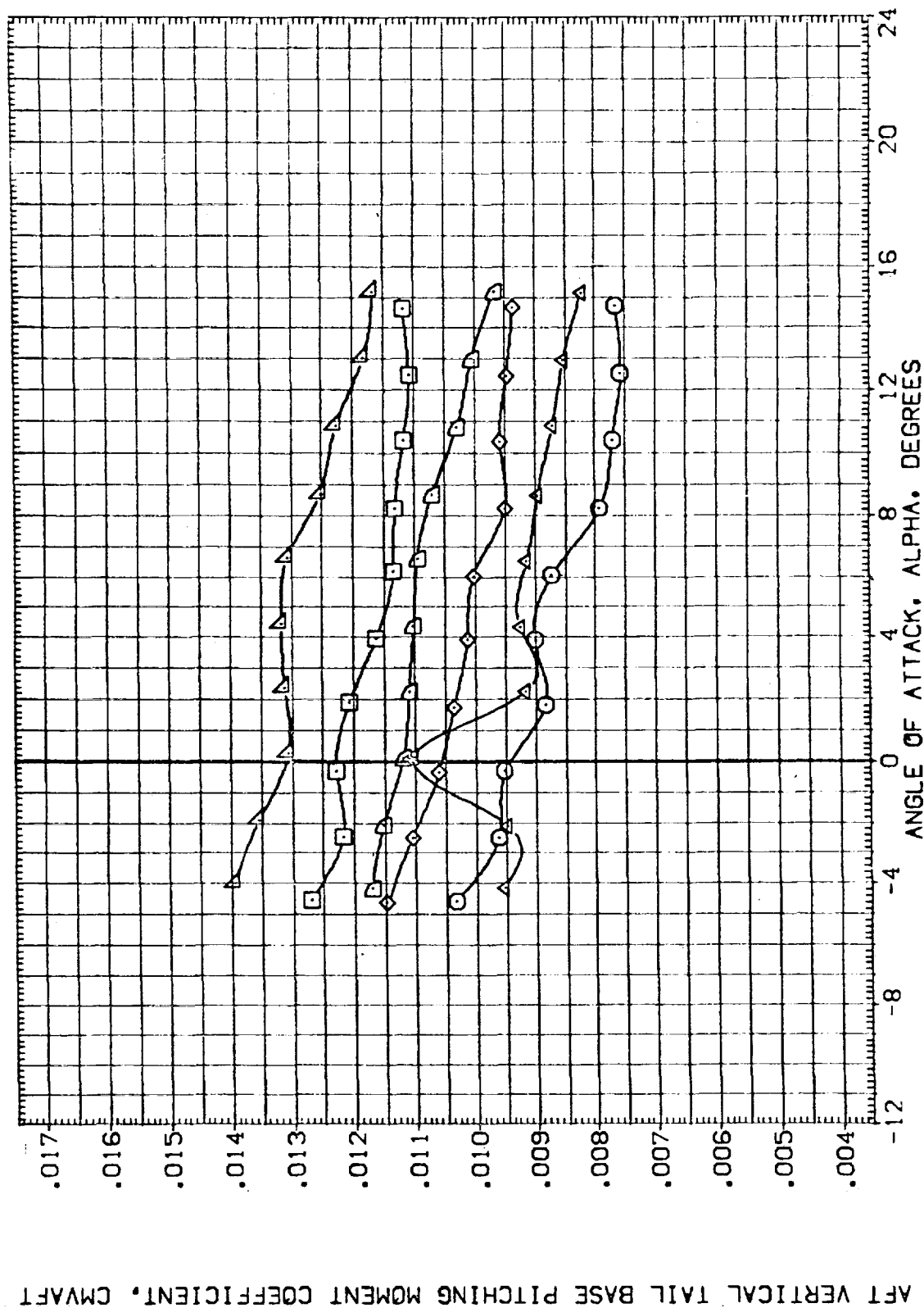


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BODY FLAP    REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY FLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SCALE -.3750 IN.

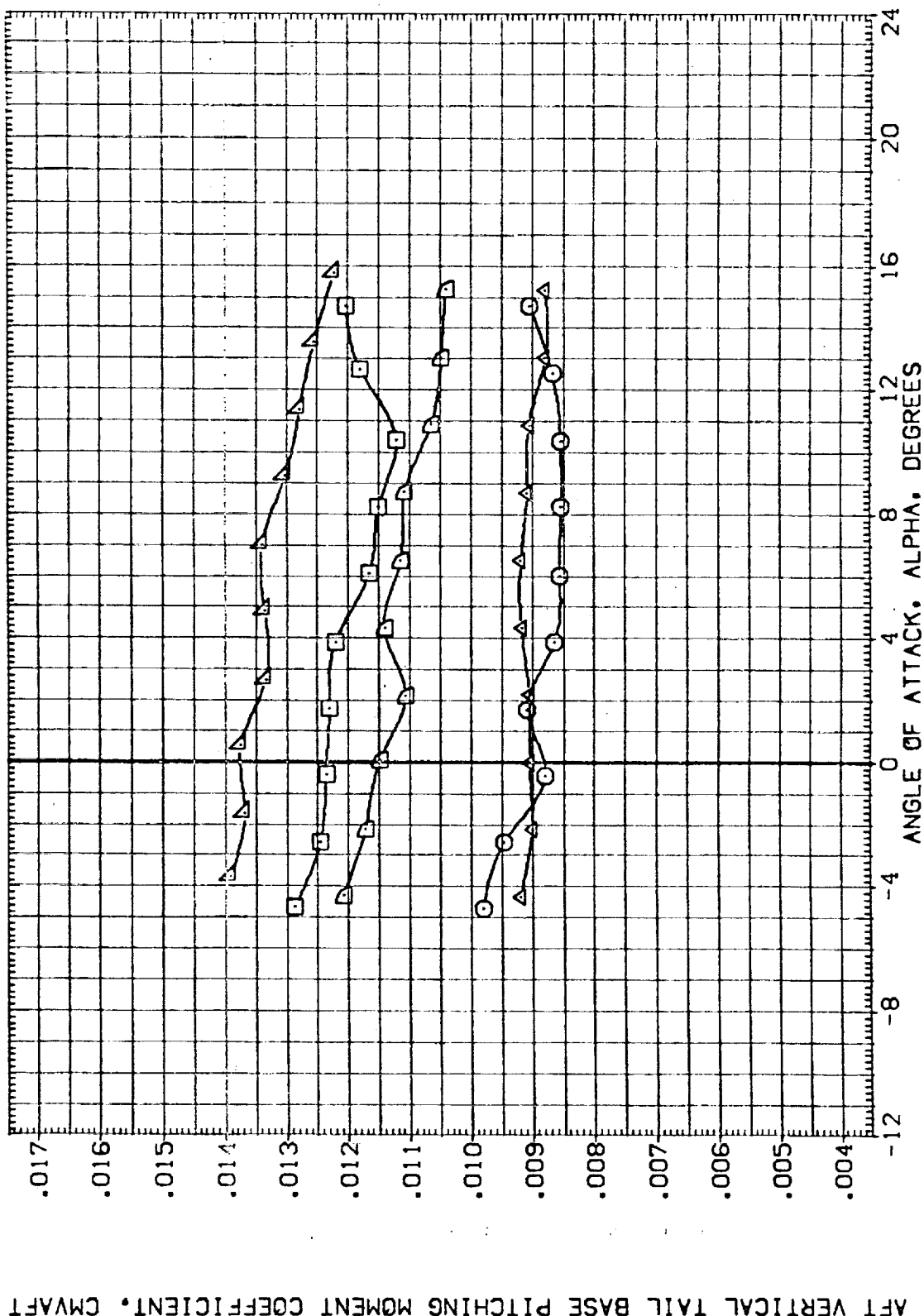


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMPP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMPP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMPP -.3750 IN.
					SCALE .0150

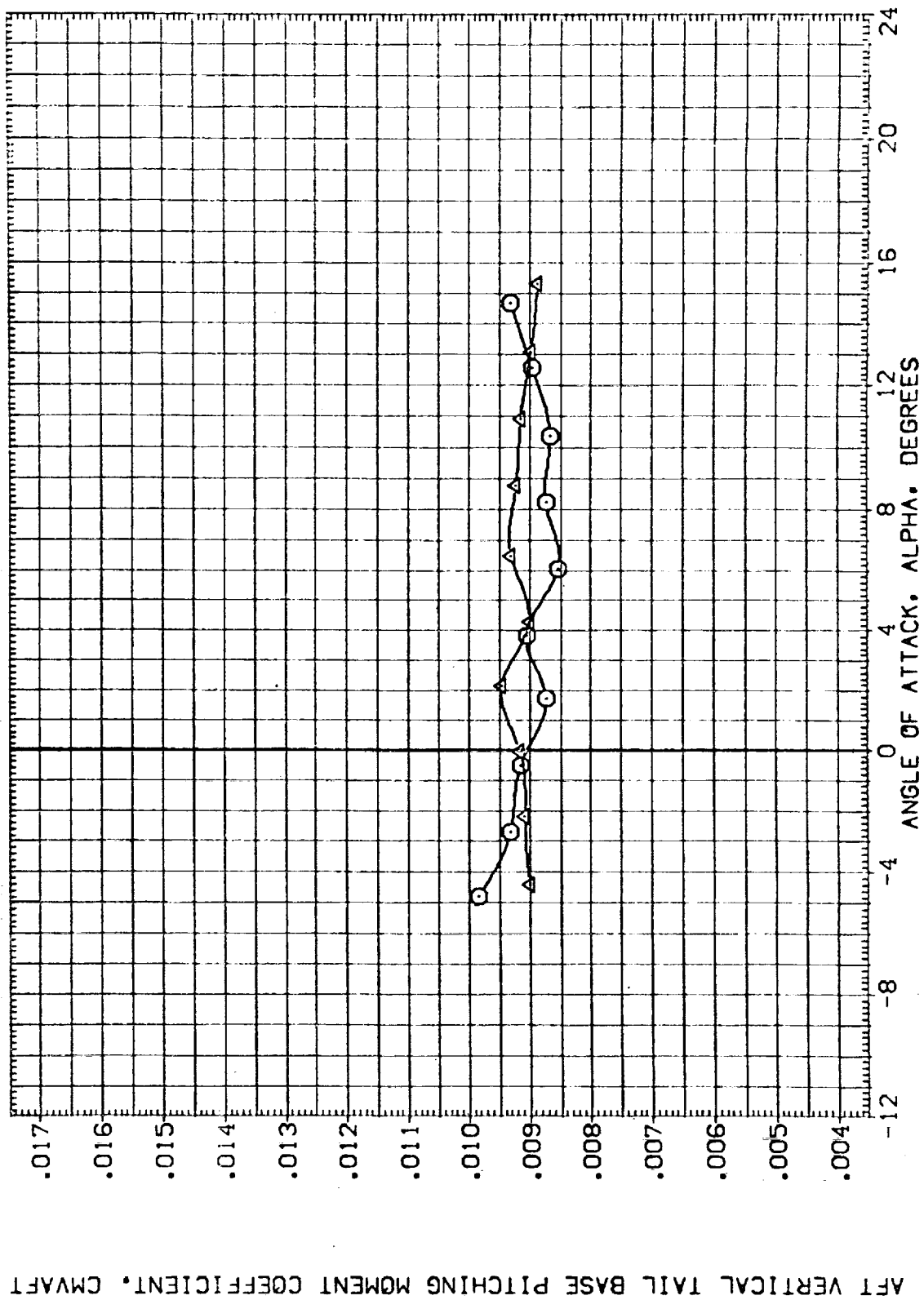


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

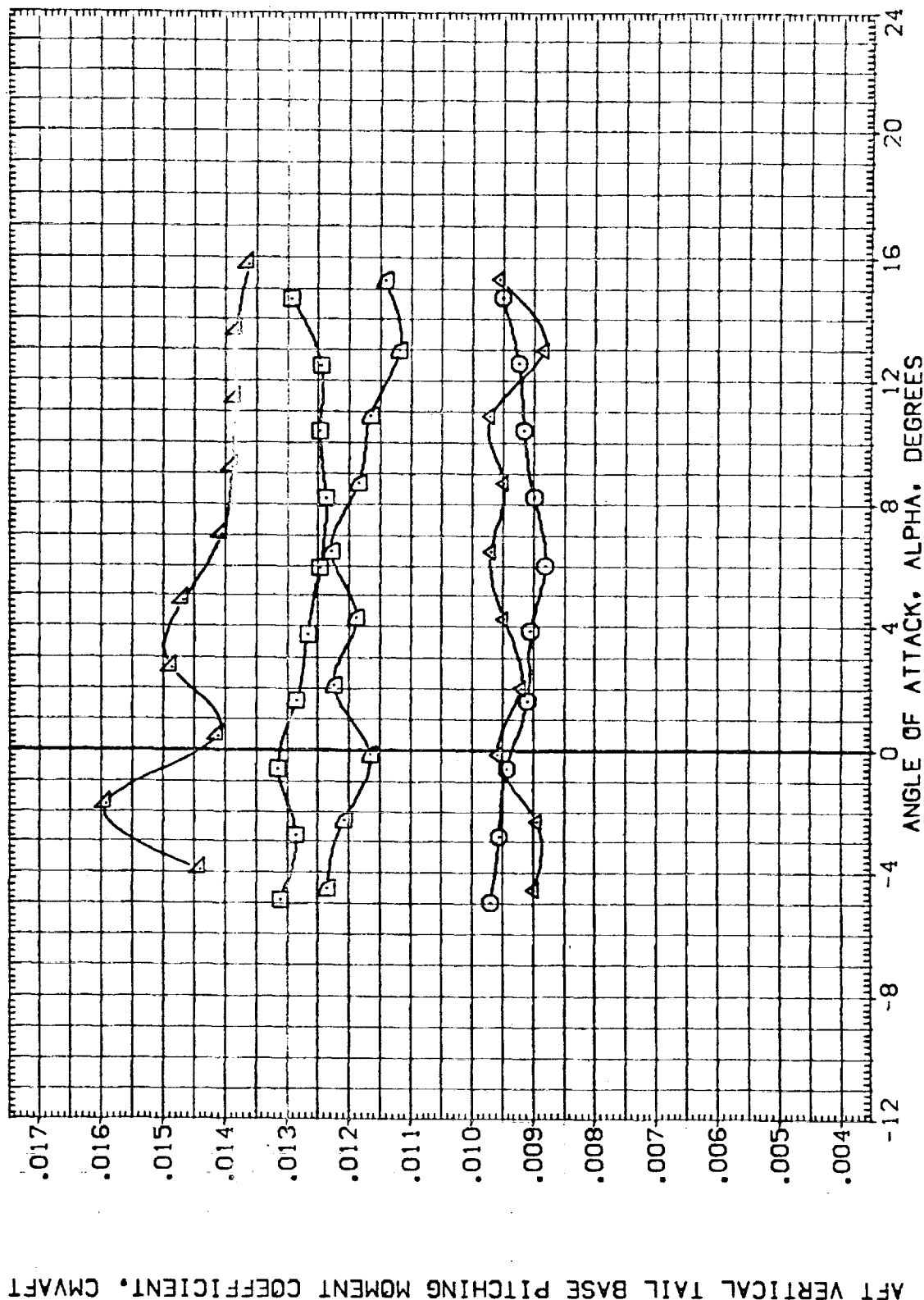


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 OAS9 DA11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 OAS9 DA11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

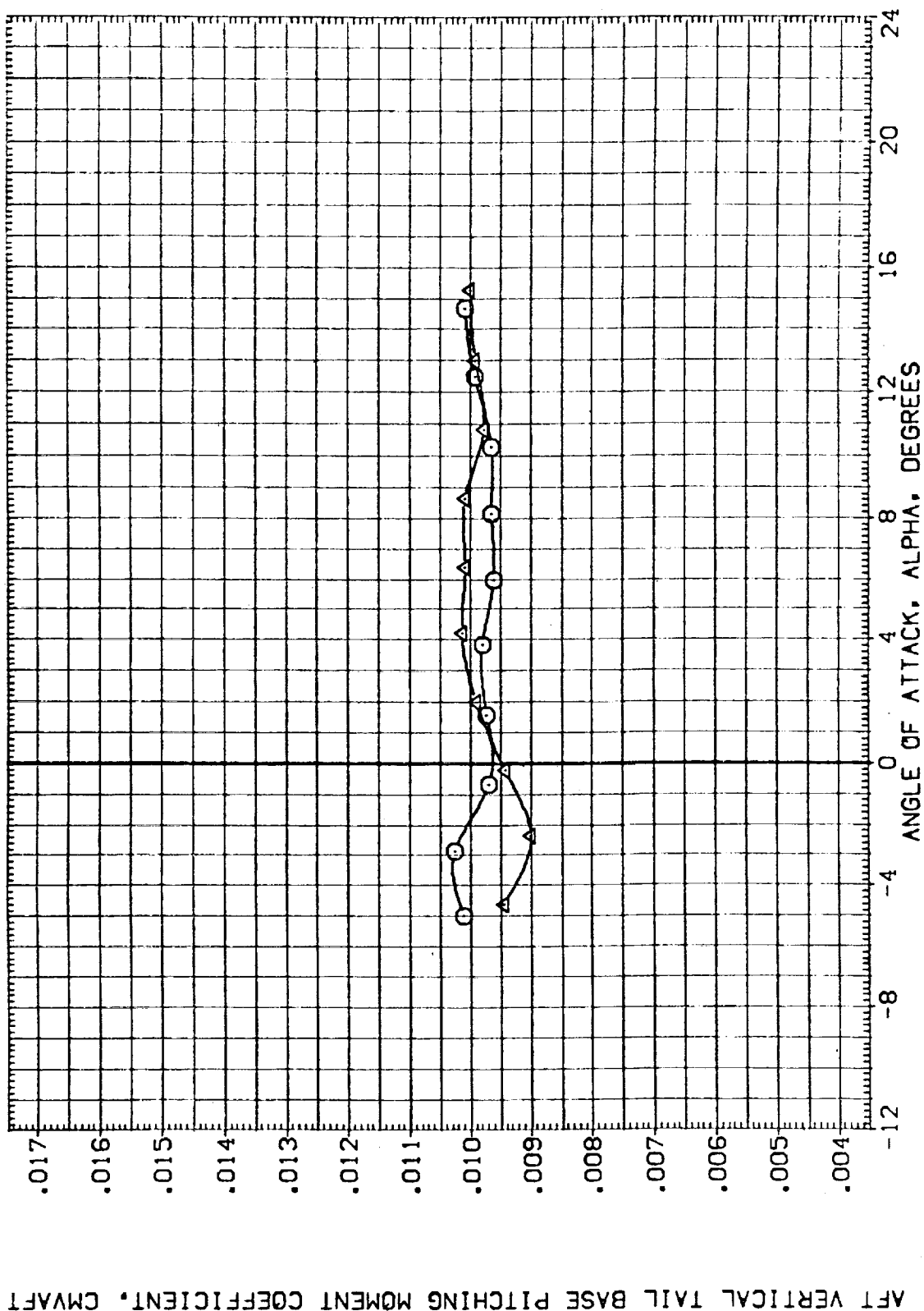


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

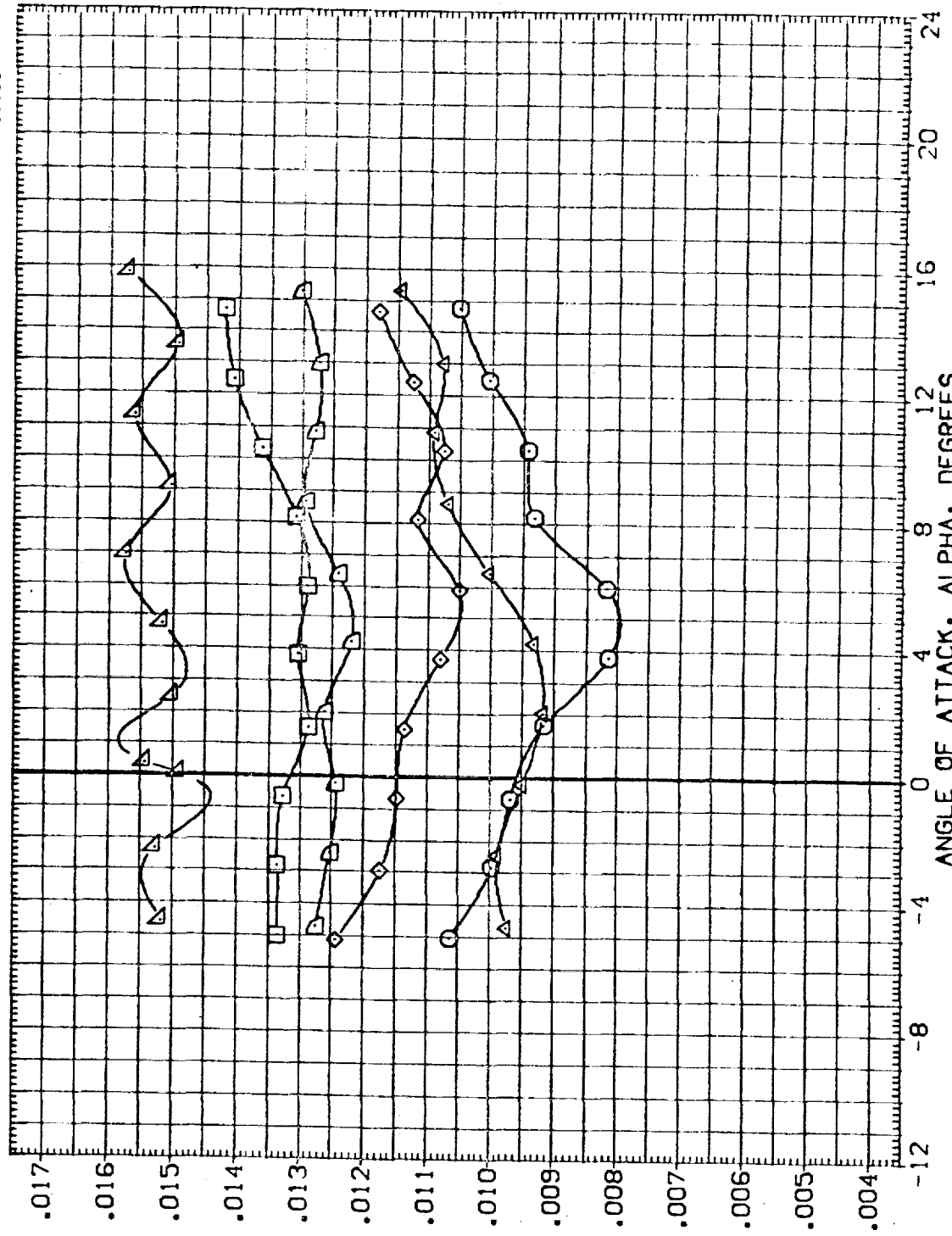


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)		ARC 66-709 OA59 OA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)		ARC 66-709 OA59 OA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)		ARC 66-709 OA59 OA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)		ARC 66-709 OA59 OA11A-(R5 V8)+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
(BER014)		ARC 66-709 OA59 OA11A-(R5 V8)+STRUT	.000	.000	.000	YMRP .0000 IN.
(BER015)		ARC 66-709 OA59 OA11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
						SCALE .0150

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

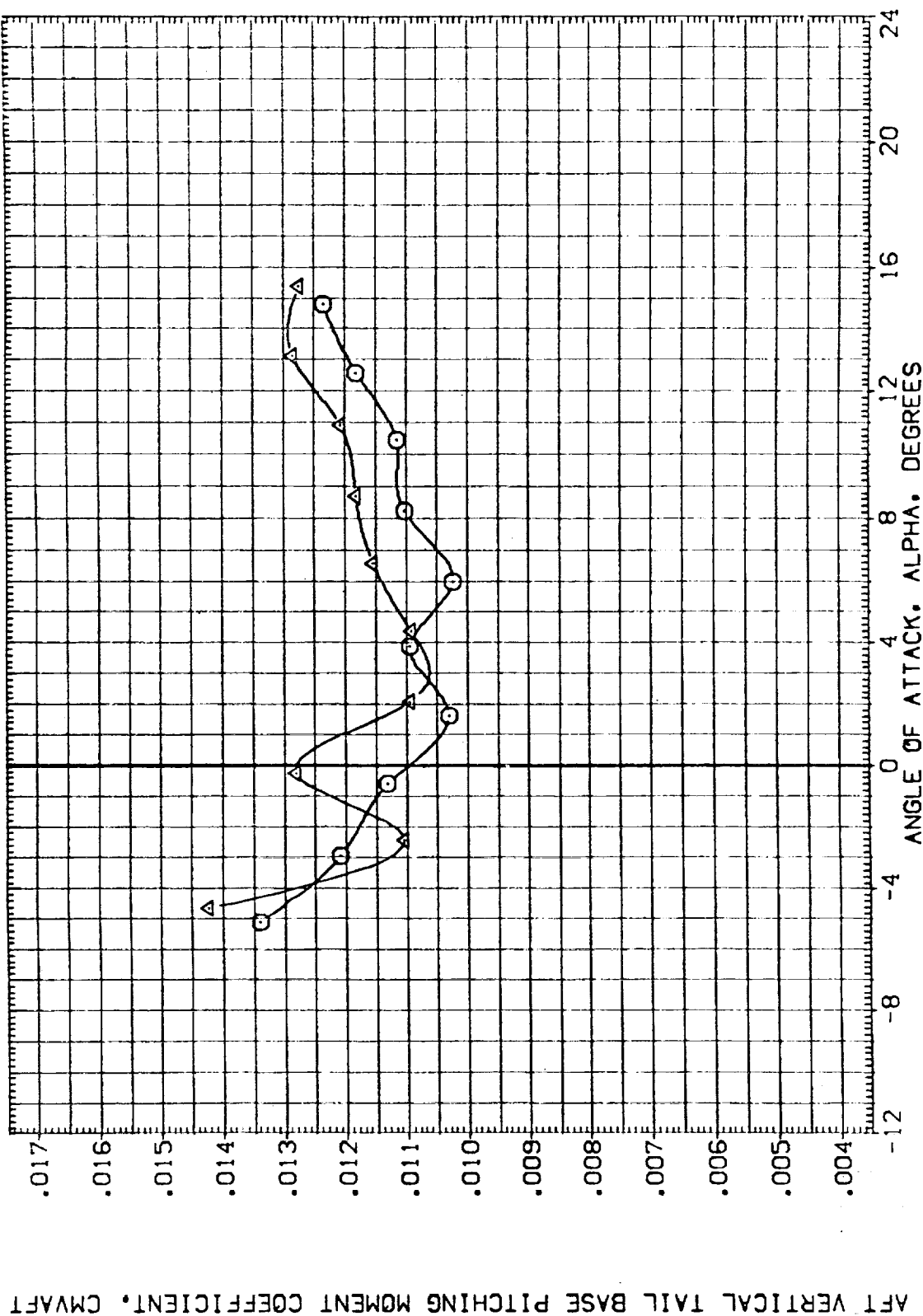


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

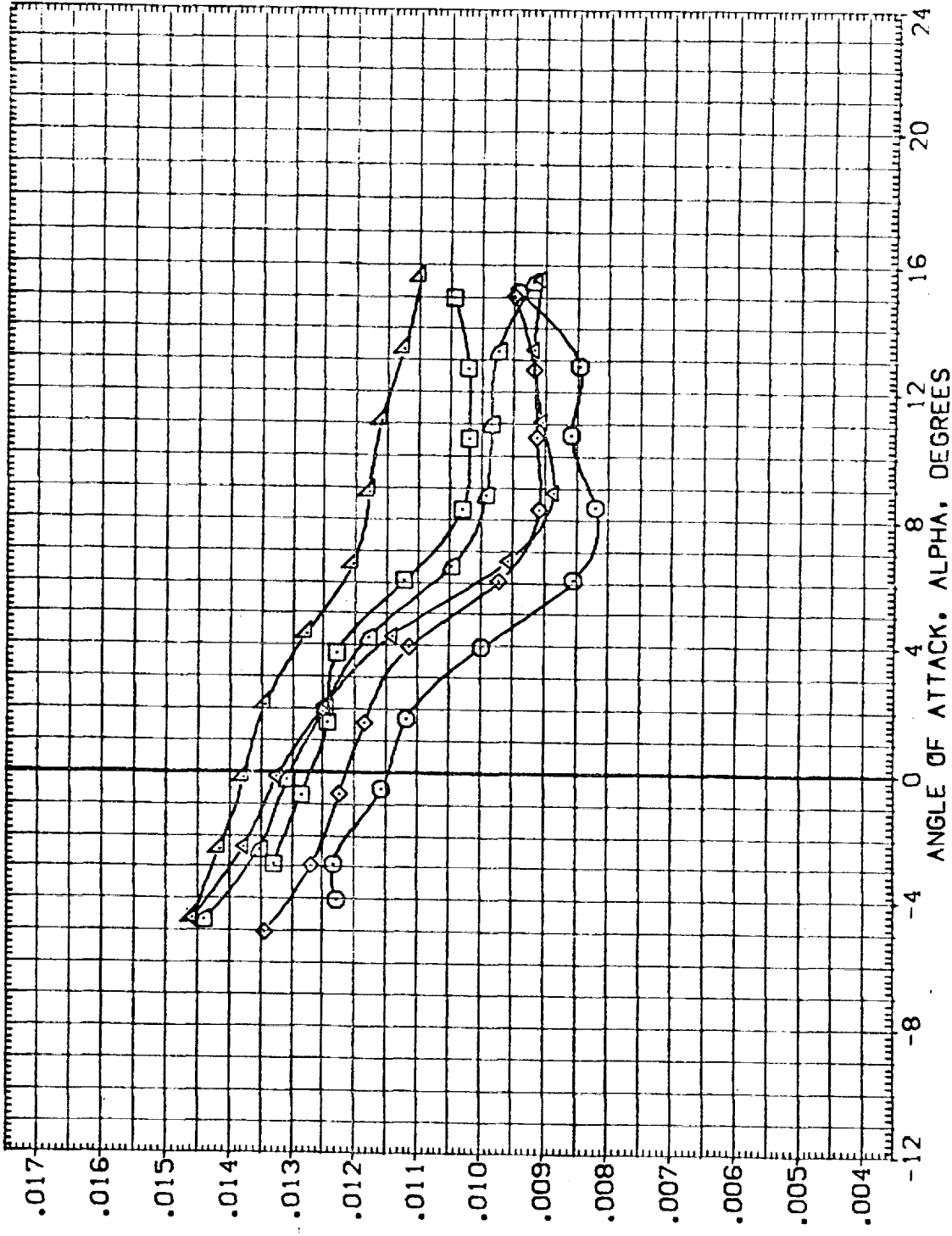


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

DATA SET	SYMBOL
(BER001)	
(BER005)	
(BER006)	
(BER012)	
(BER014)	
(BER015)	

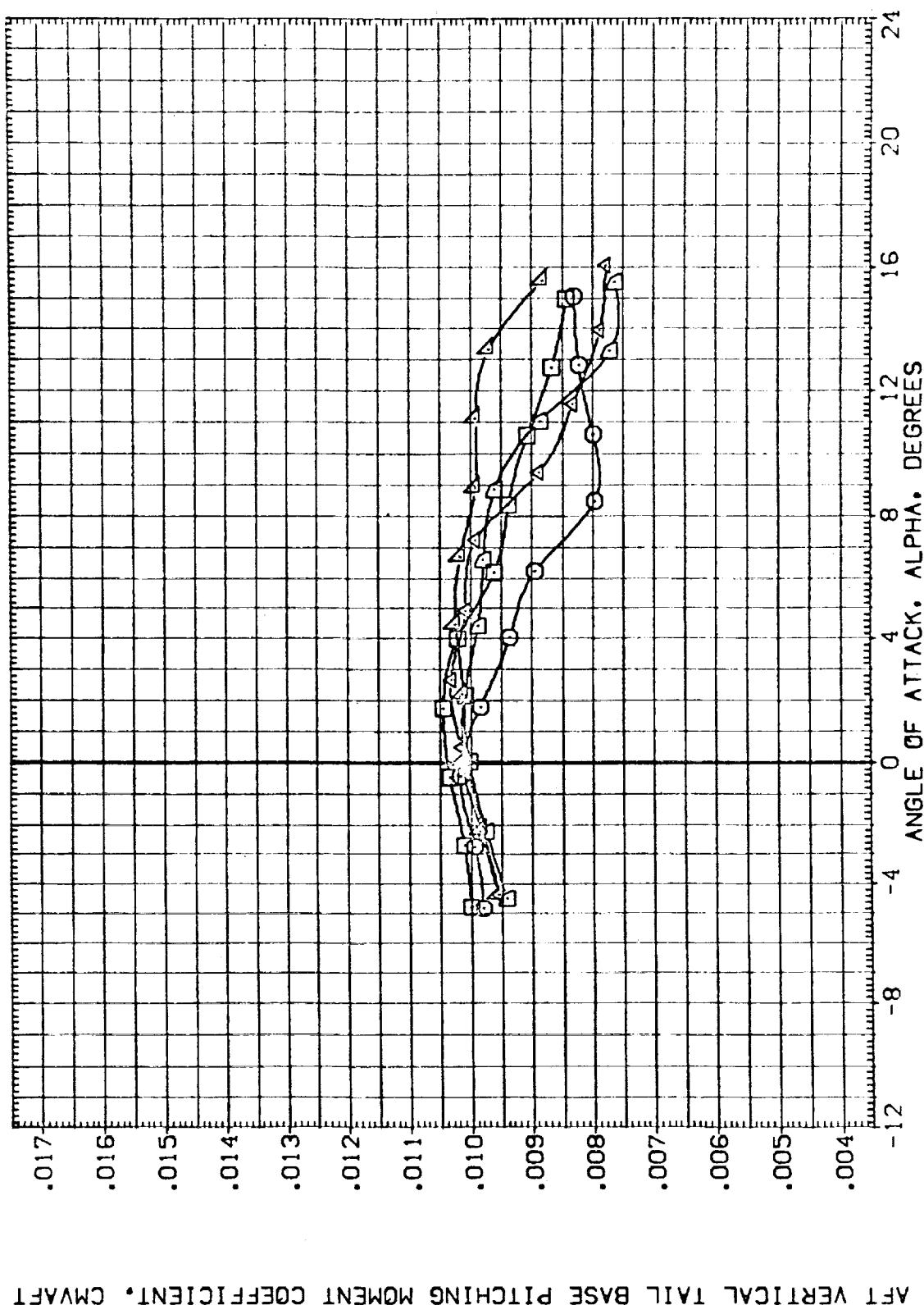


FIG. 5. BODY FLAP EFFECTS DURING TARE PITCH RUNS

CIMACH = 1.50

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (BER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (BER005) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (BER006) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (BER012) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT  
 (BER014) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT  
 (BER015) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

ELEVON  
 .000  
 .000  
 .000  
 .000  
 .000  
 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

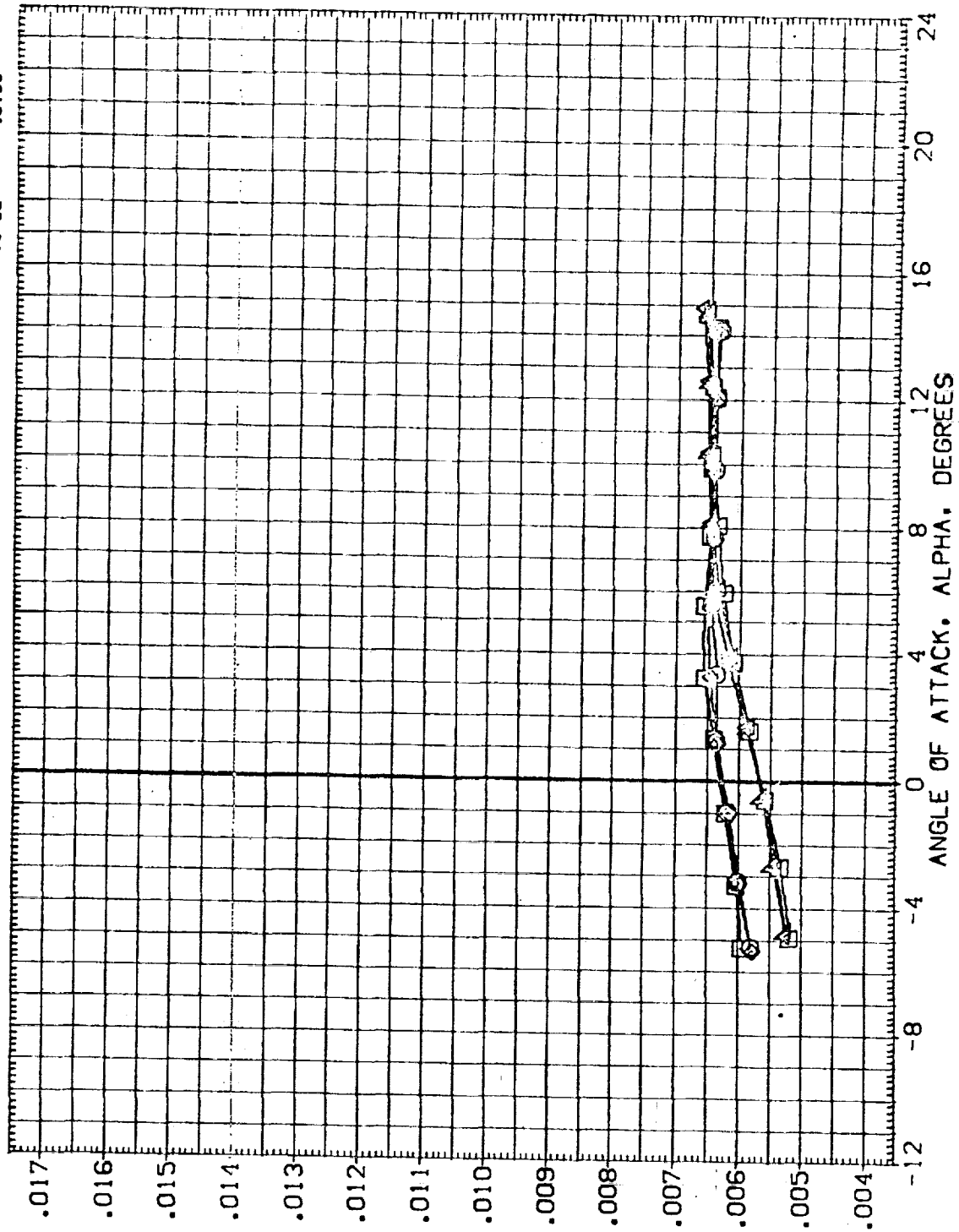


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00





DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
{ KER001 }	ARC 66-709 0A59	0A11A-(N24 R
{ KER009 }	ARC 66-709 0A59	0A11A-(N24 R
{ KER012 }	ARC 66-709 0A59	0A11A-(R5 V8

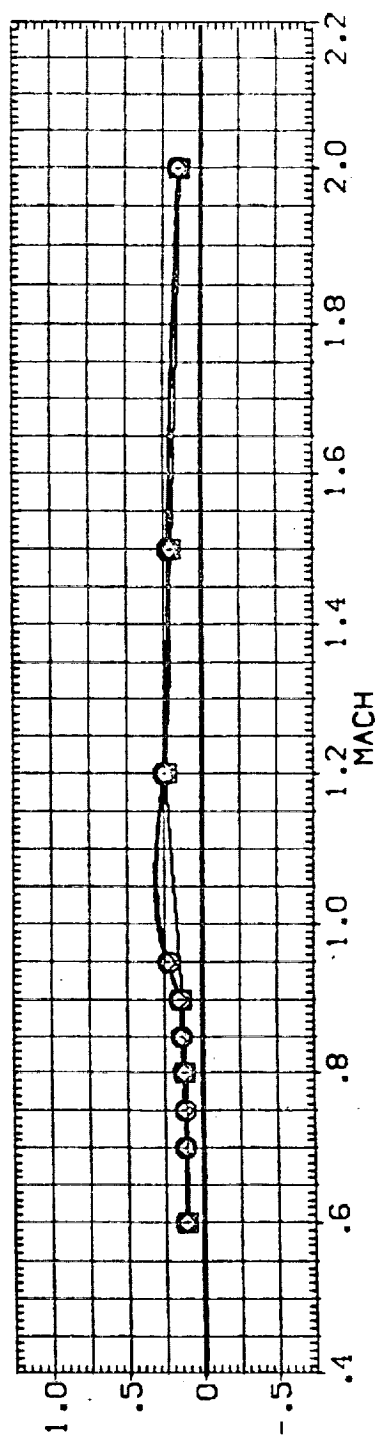
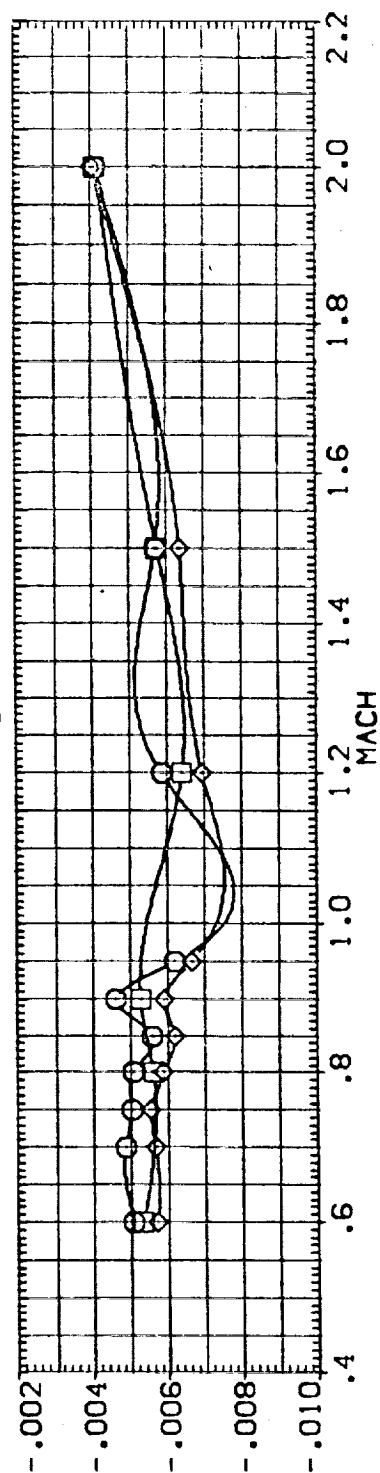
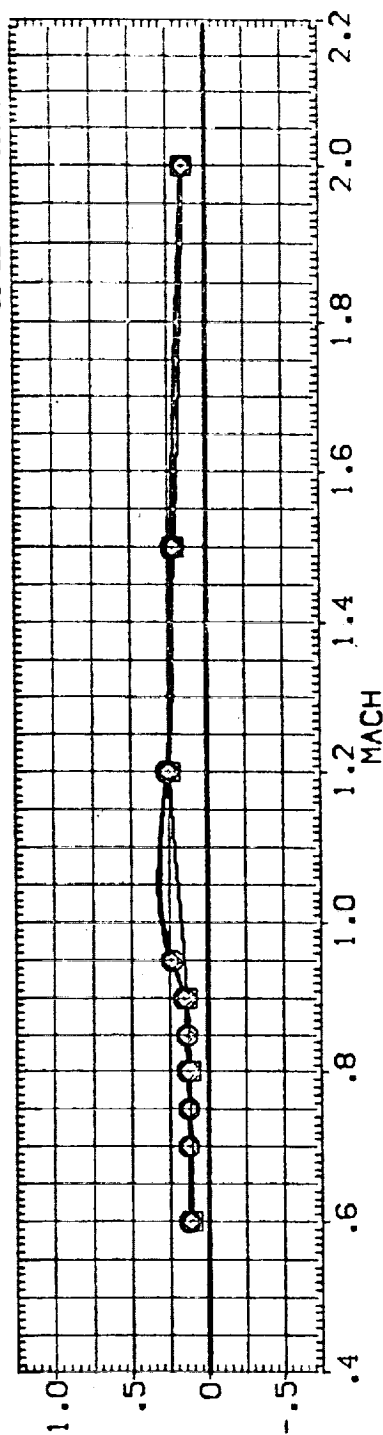


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(CB)ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOELAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 QAS9 QALIA-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(KER009)	ARC 66-709 QAS9 QALIA-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 QAS9 QALIA-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

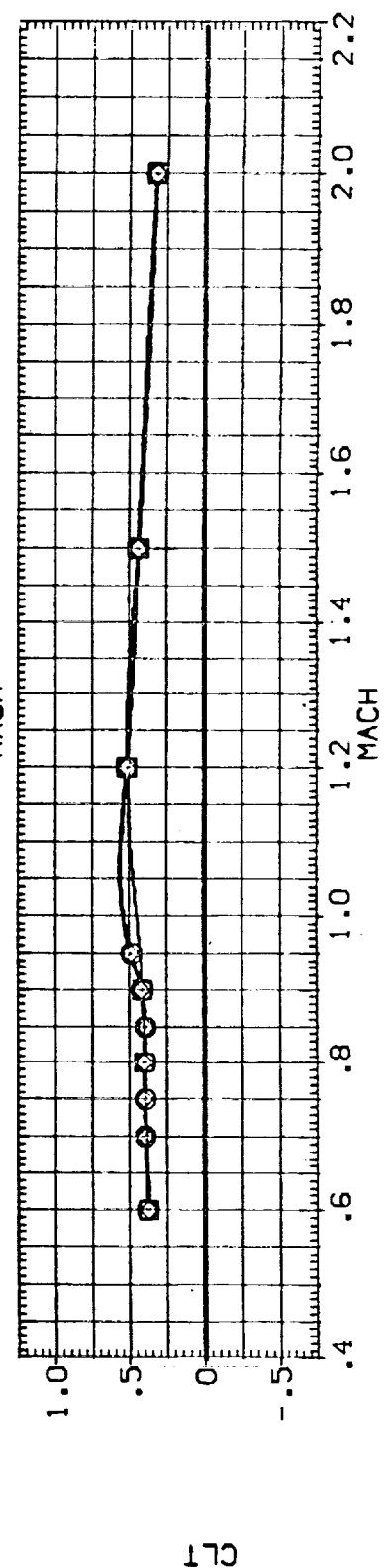
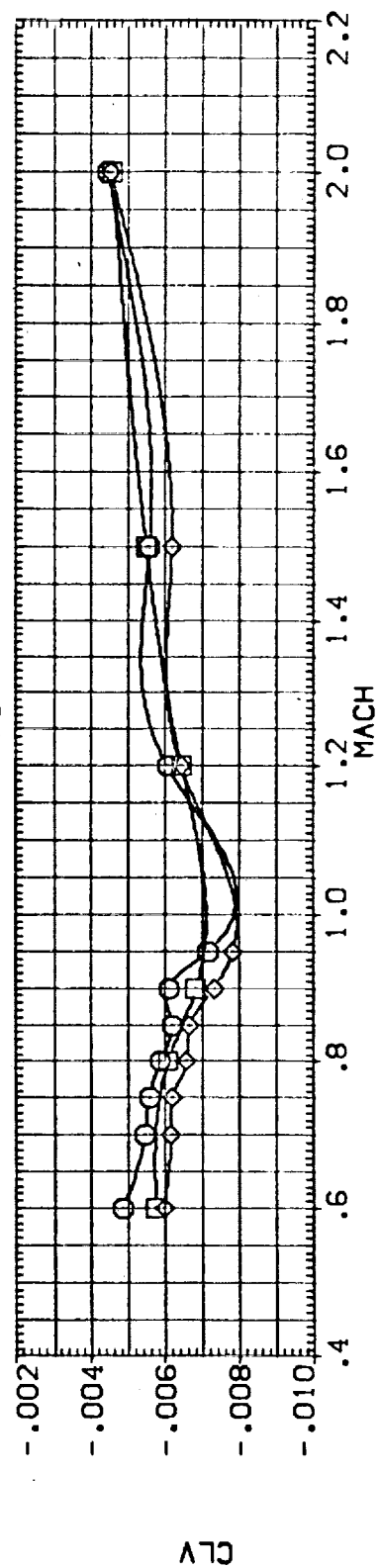
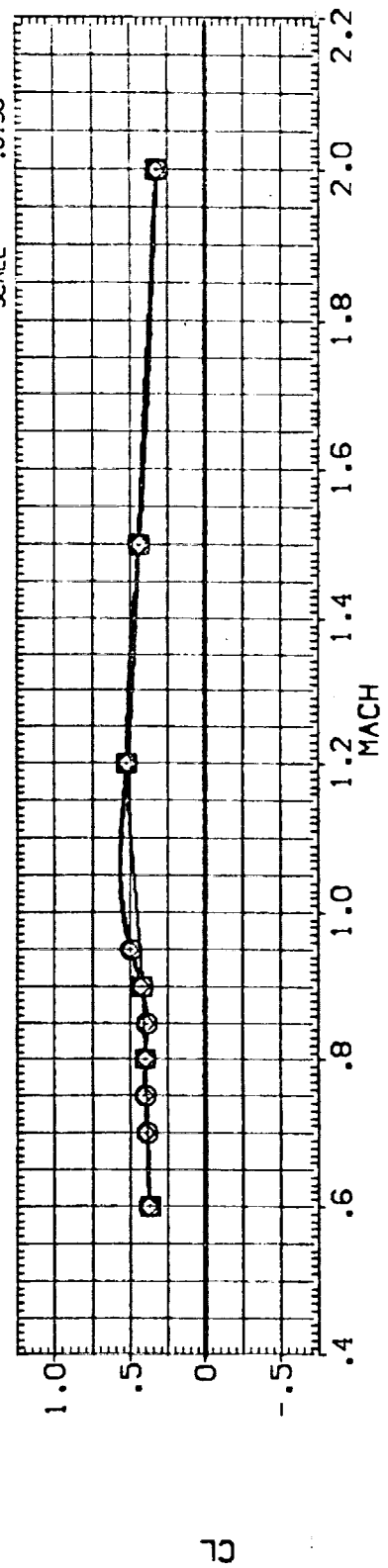


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 D459 D411A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 SQ.FT.
(KERO09)	ARC 66-709 D459 D411A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF 5935 FT.
(KERO12)	ARC 66-709 D459 D411A-(R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

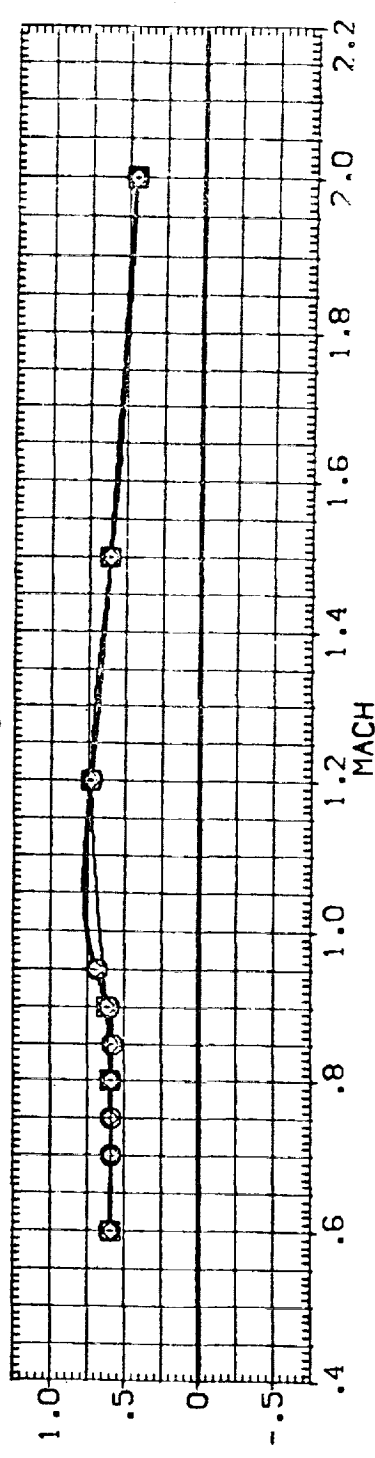
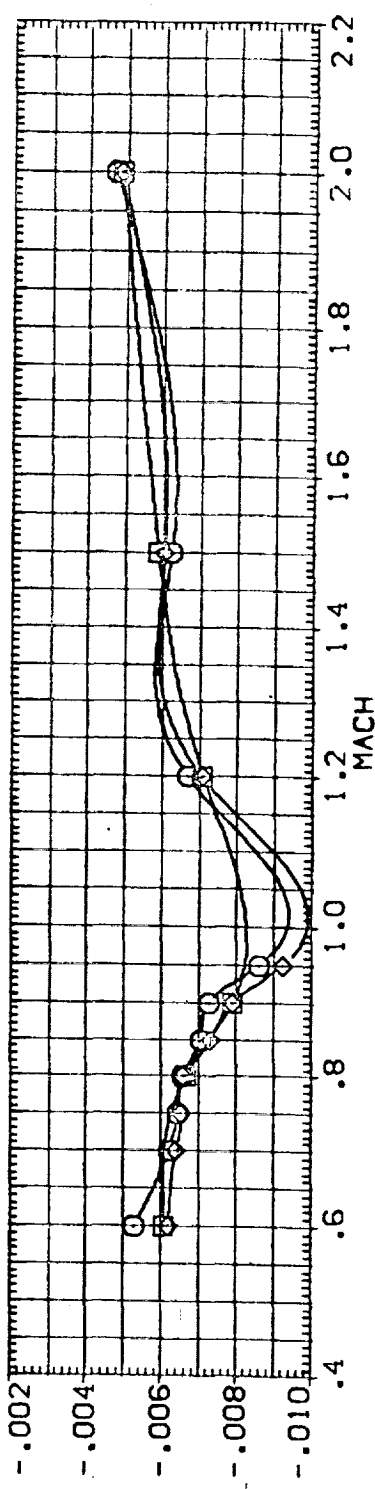
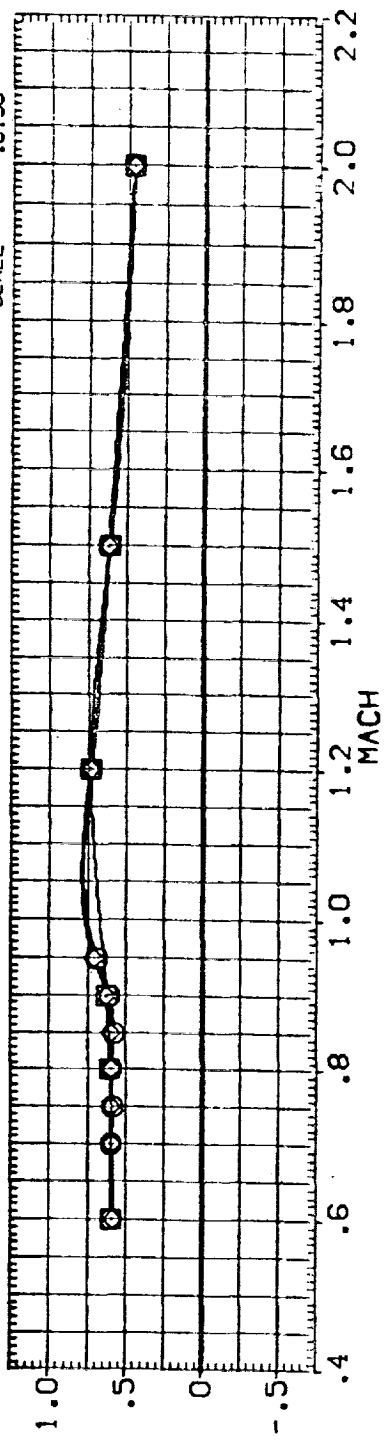


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{ KER001 }	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{ KER009 }	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{ KER012 }	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

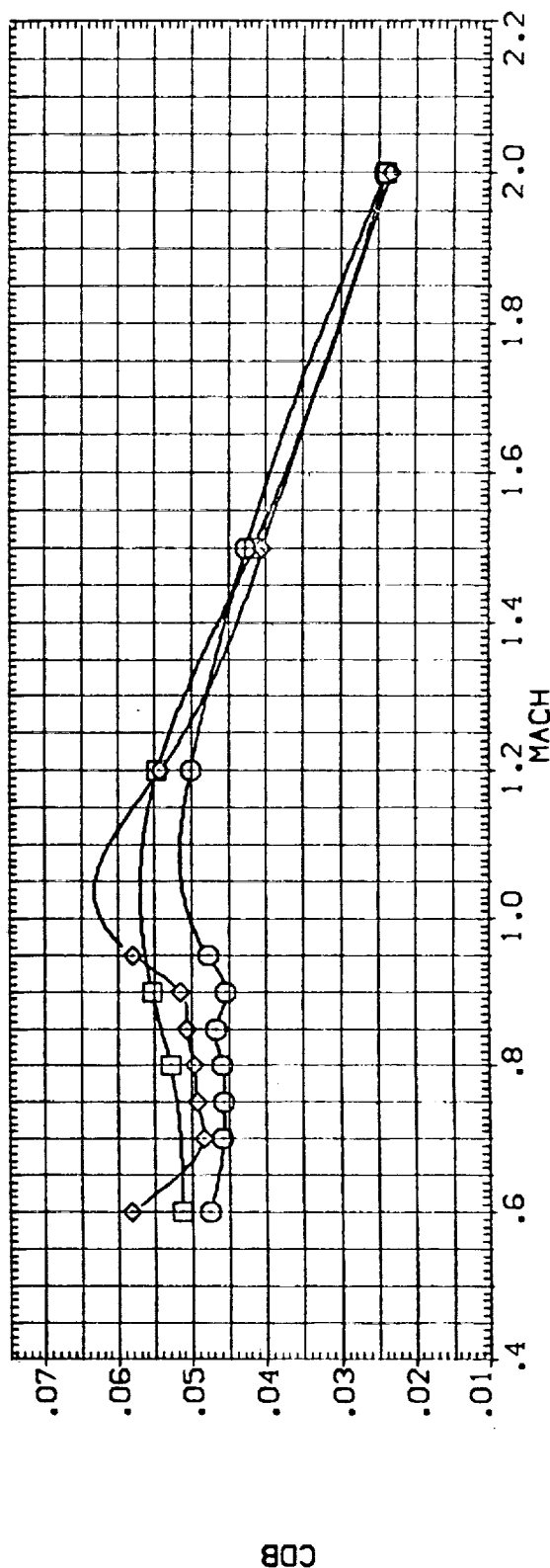
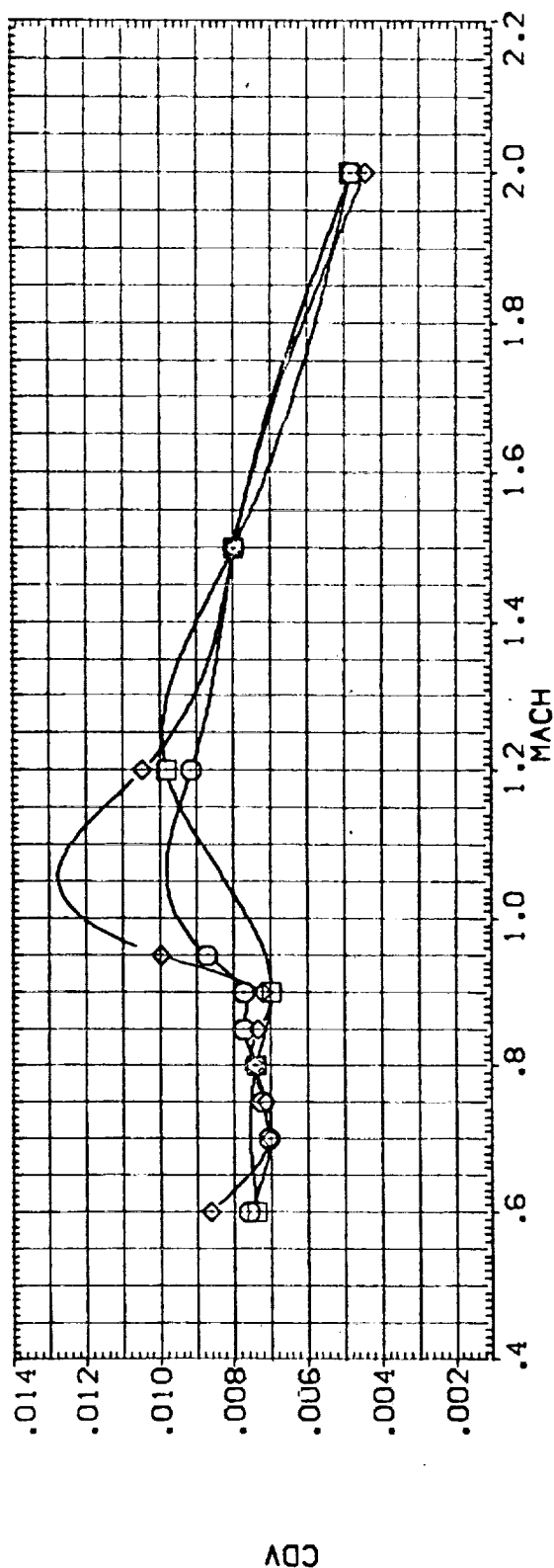


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(KER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 IN.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

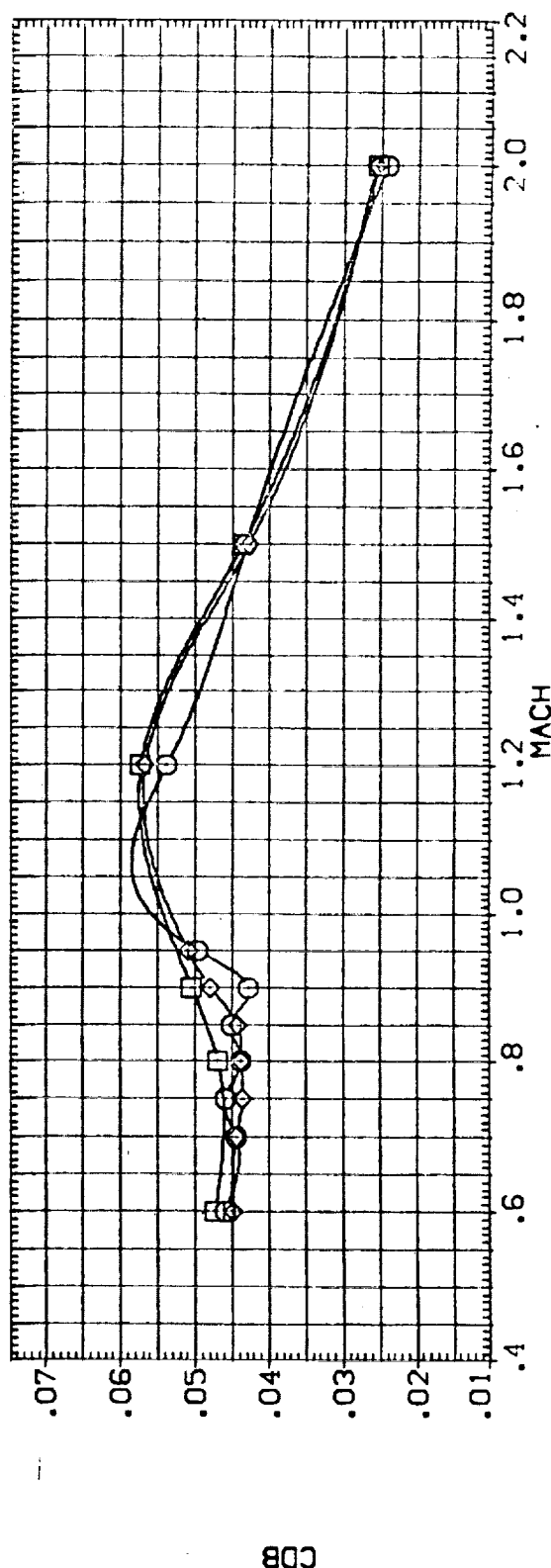
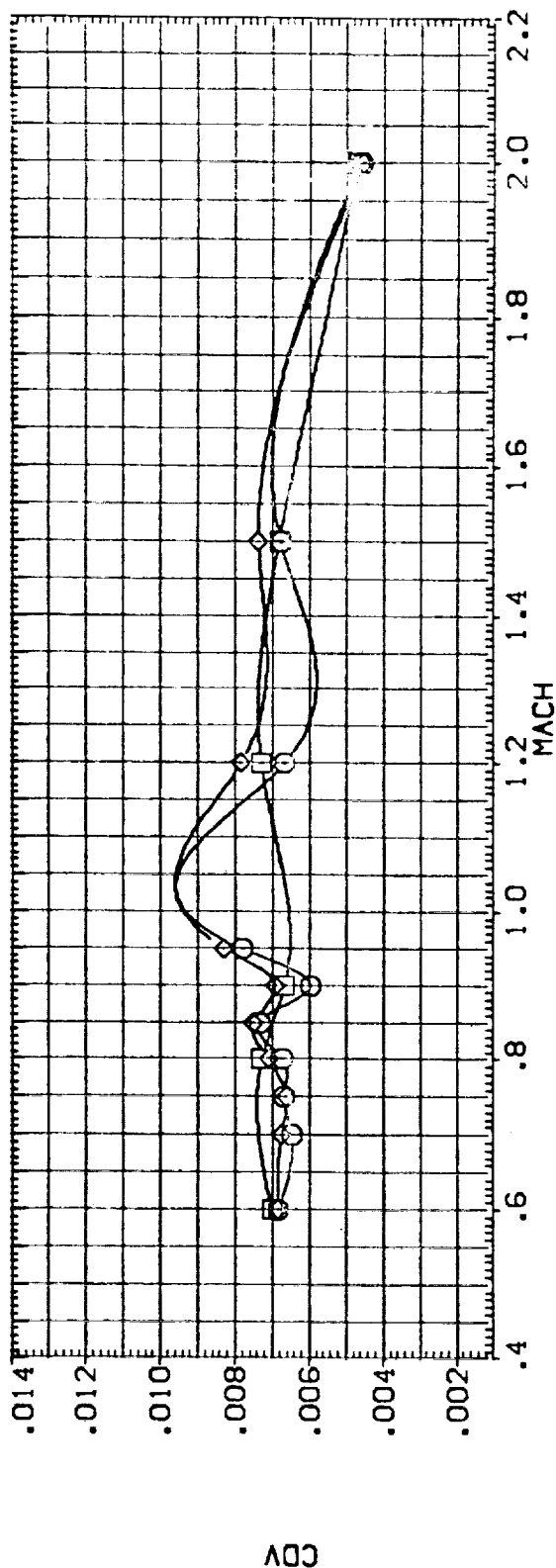


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 QA59 QA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(KERO09)	ARC 66-709 QA59 QA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KERO12)	ARC 66-709 QA59 QA11A-(R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

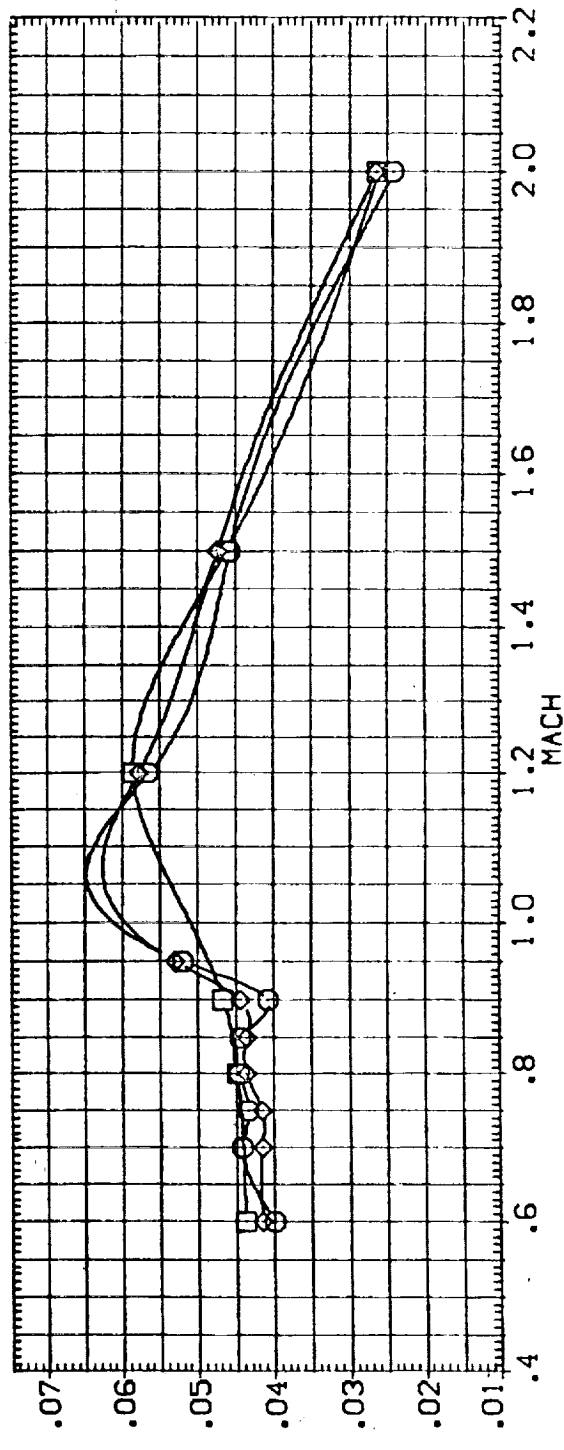
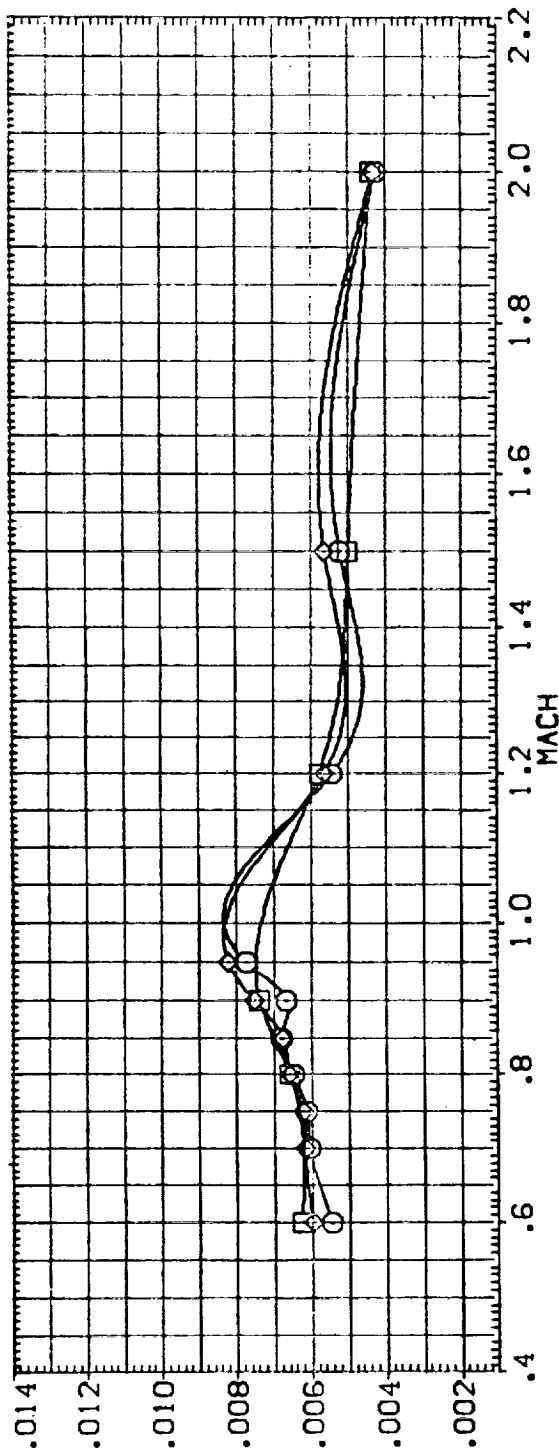


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(CJALPHA = 10.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[KER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
[KER009]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
[KER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

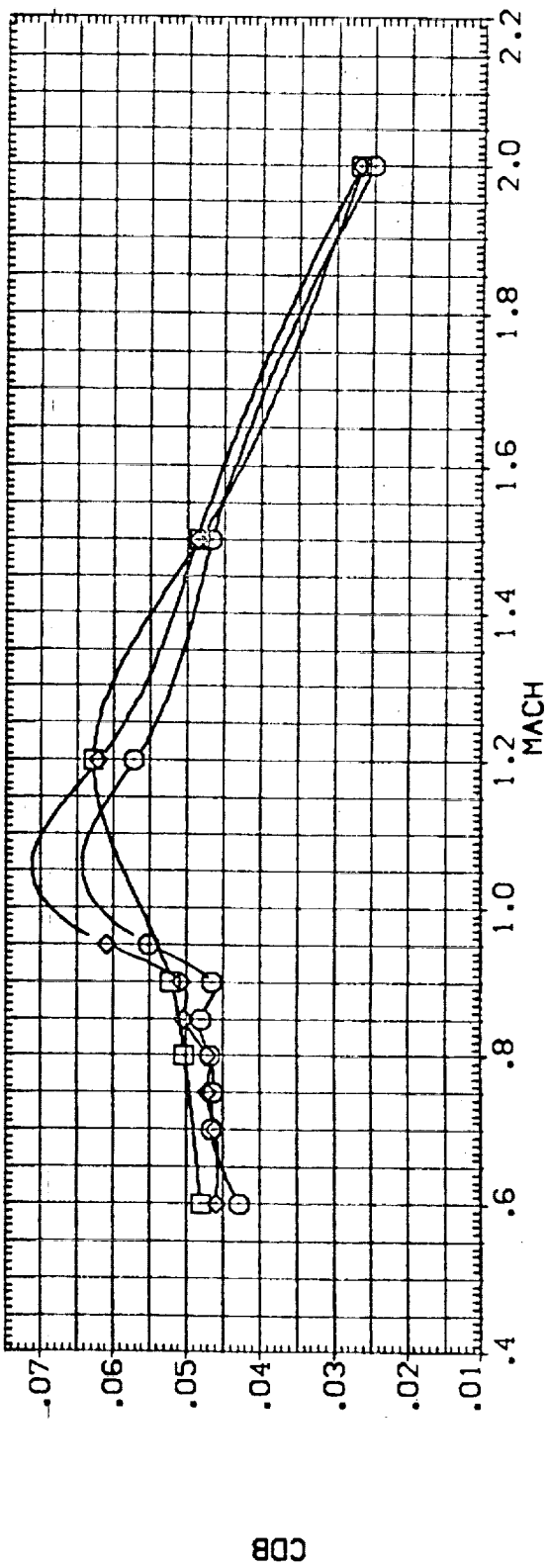
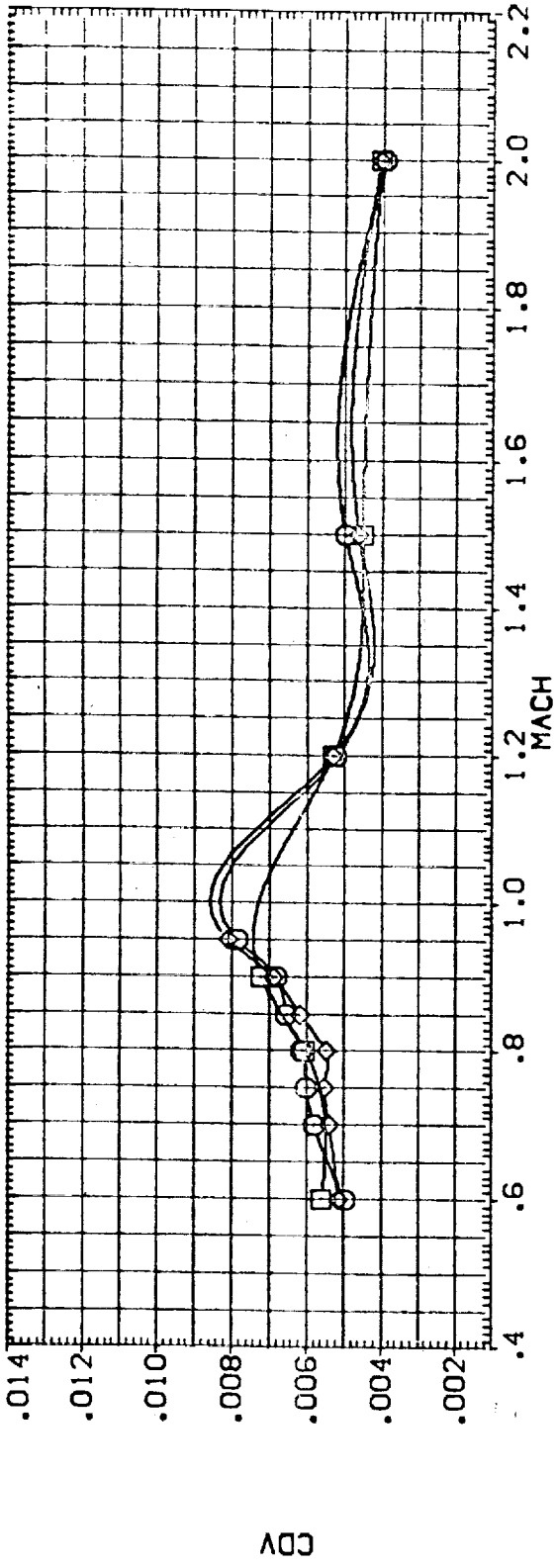


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(O) ALPHA = 14.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(KER009)	ARC 66-709 D459 D411A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 D459 D411A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

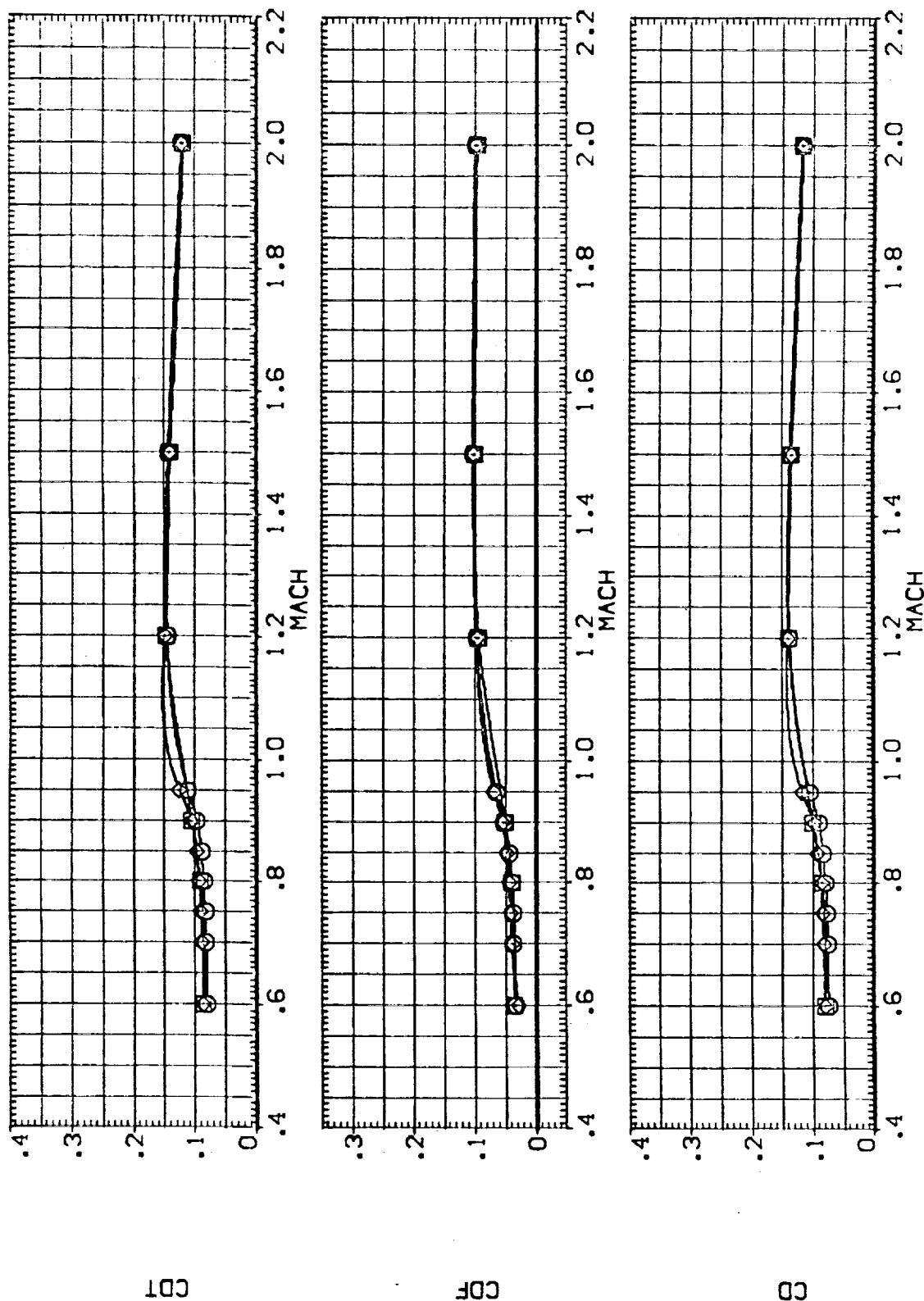


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A)ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(KER009)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

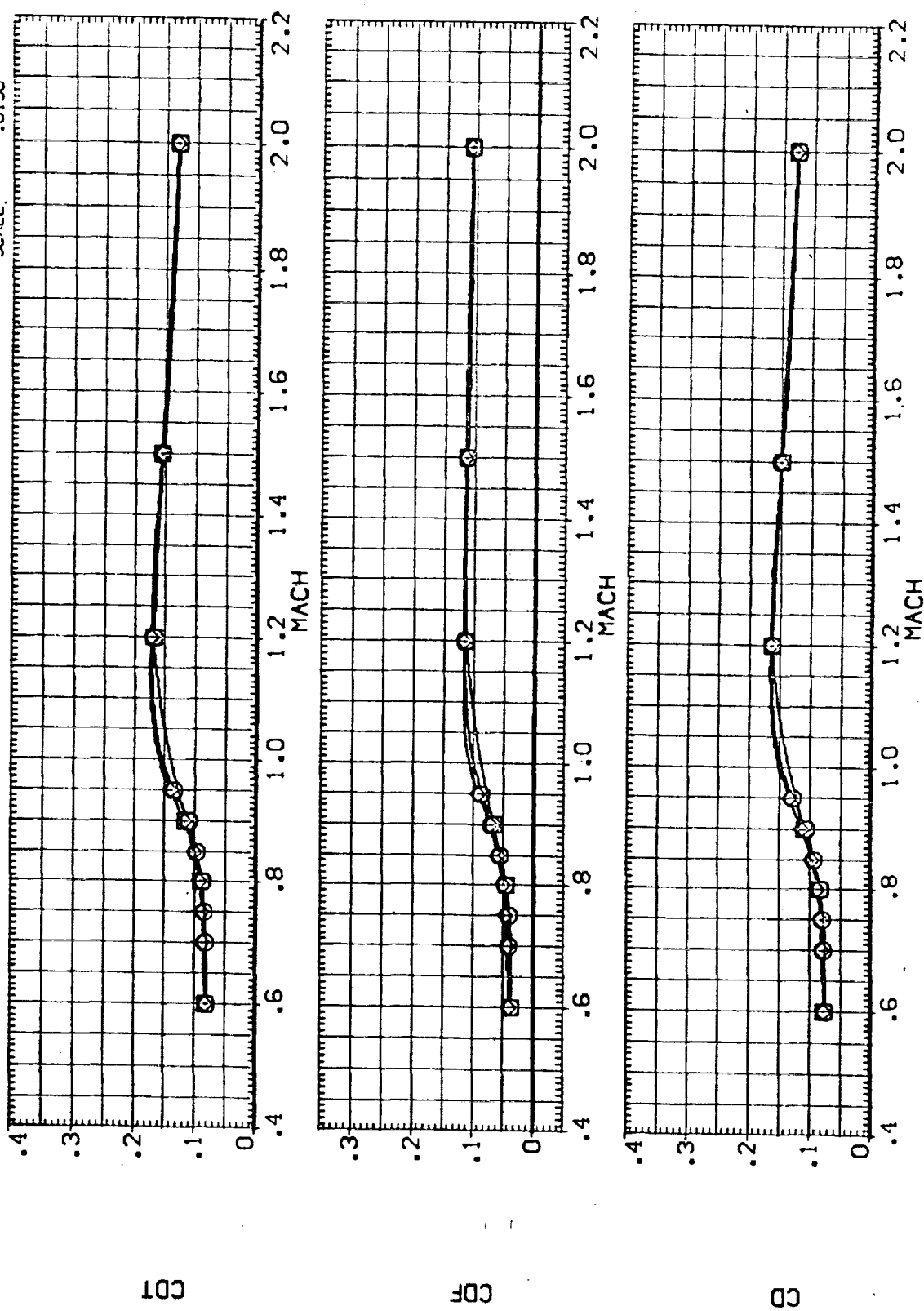


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B)ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(KERO09)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT	.000	.000	-11.700	LREF .5935 FT.
(KERO12)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

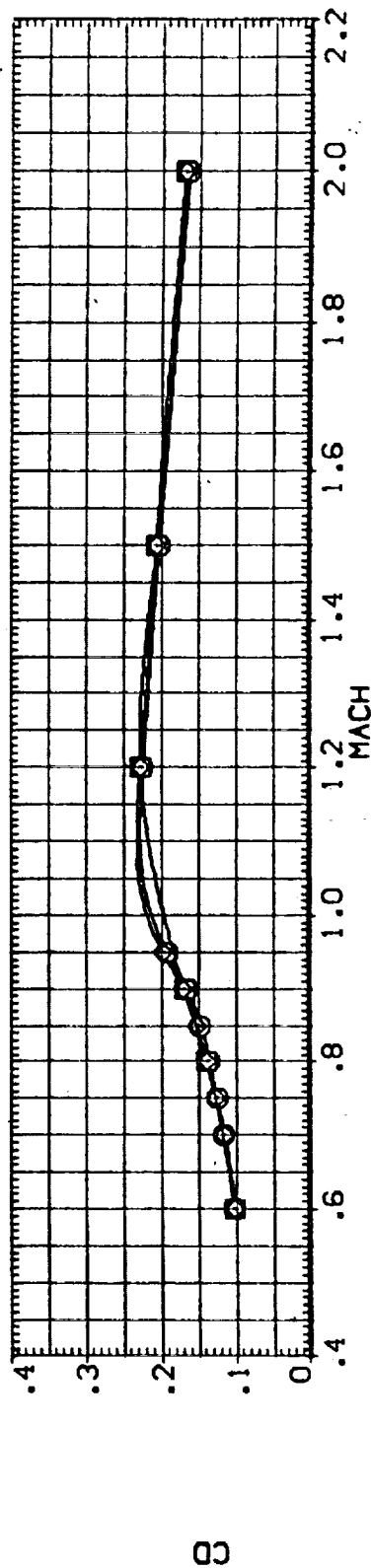
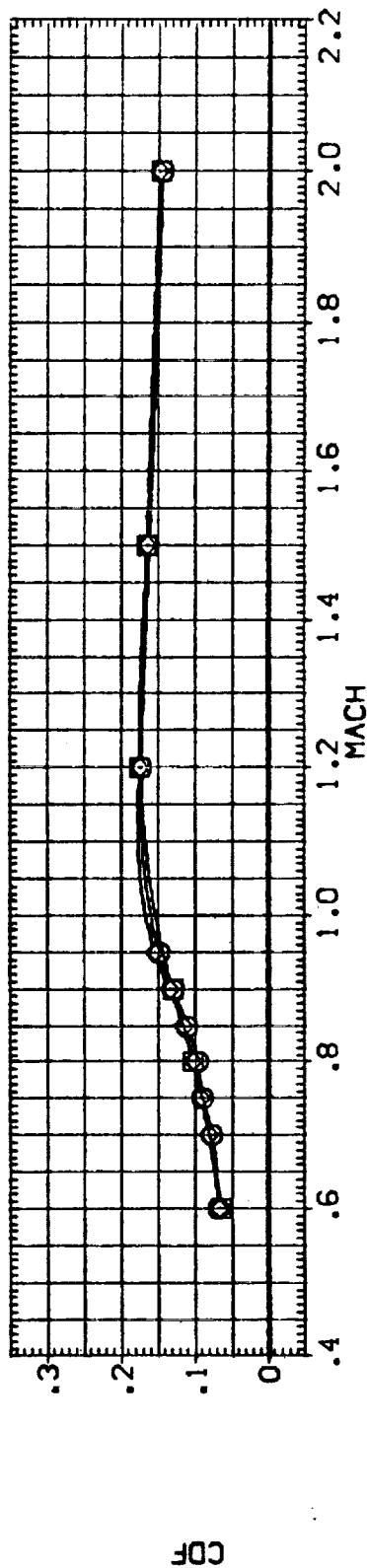
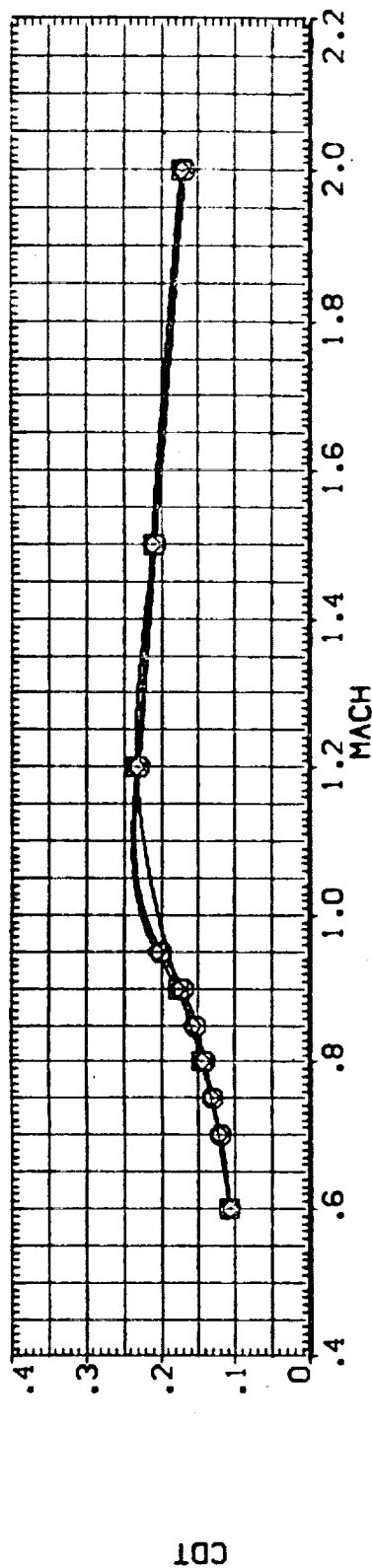


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{KERO01}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{KERO09}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{KERO12}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

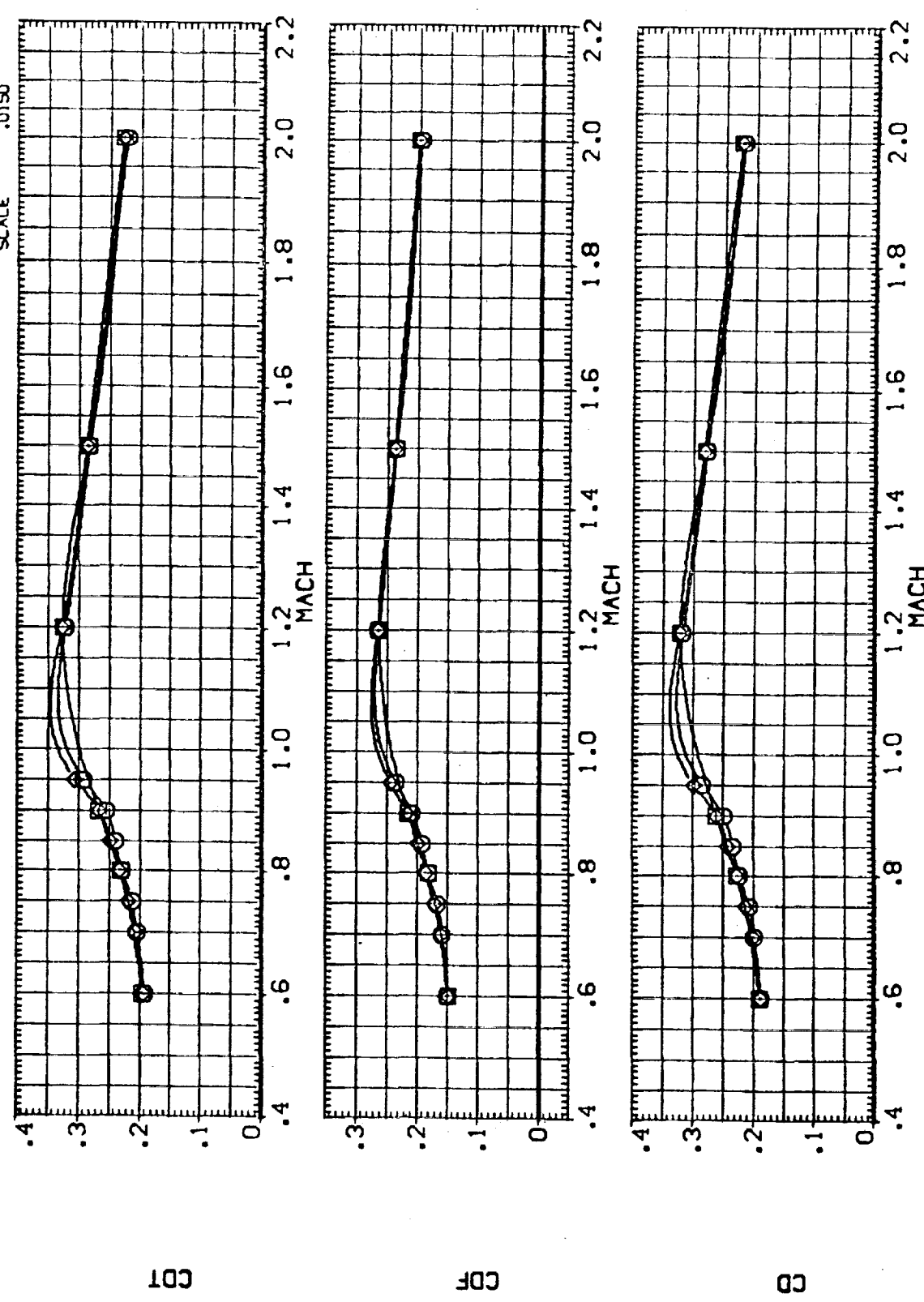


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 OAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709 OAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709 OAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

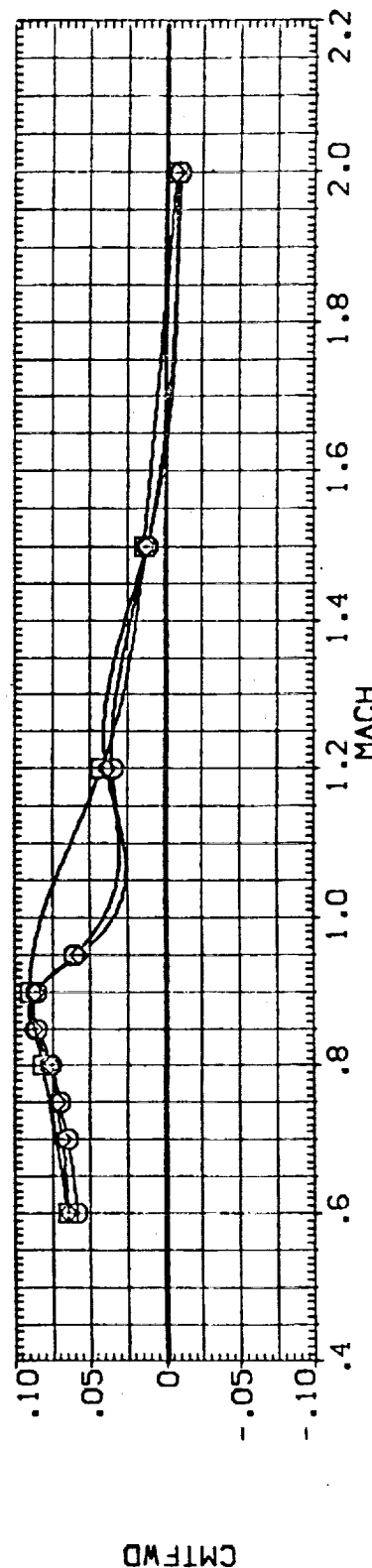
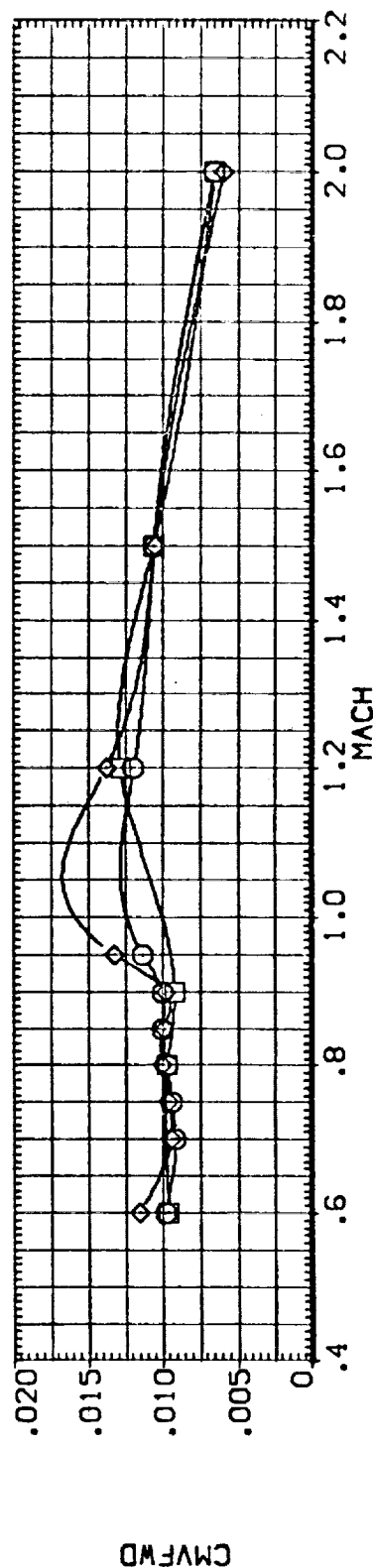
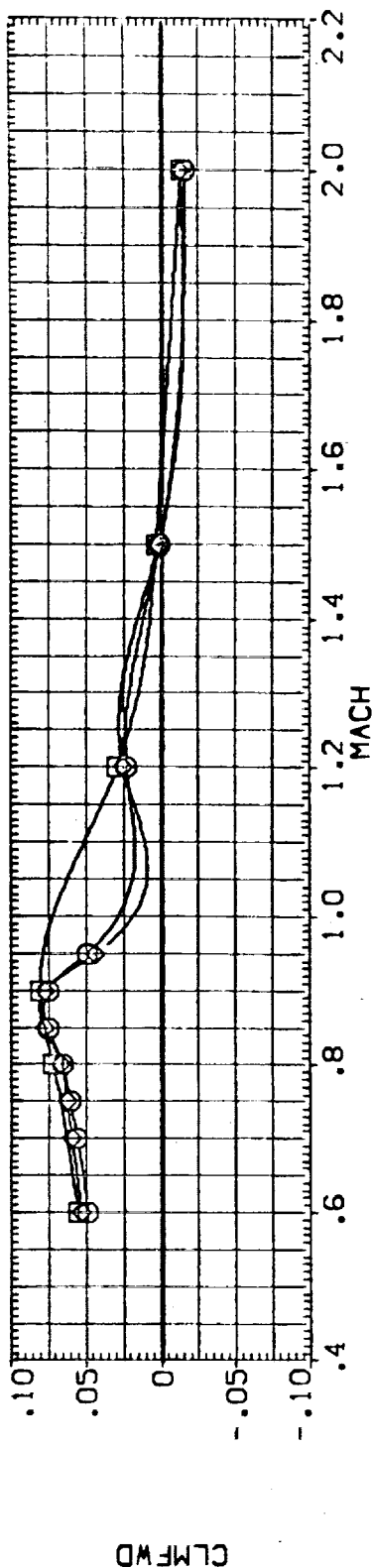


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

( $\alpha$ )ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LERO01)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUH STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(LERO09)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

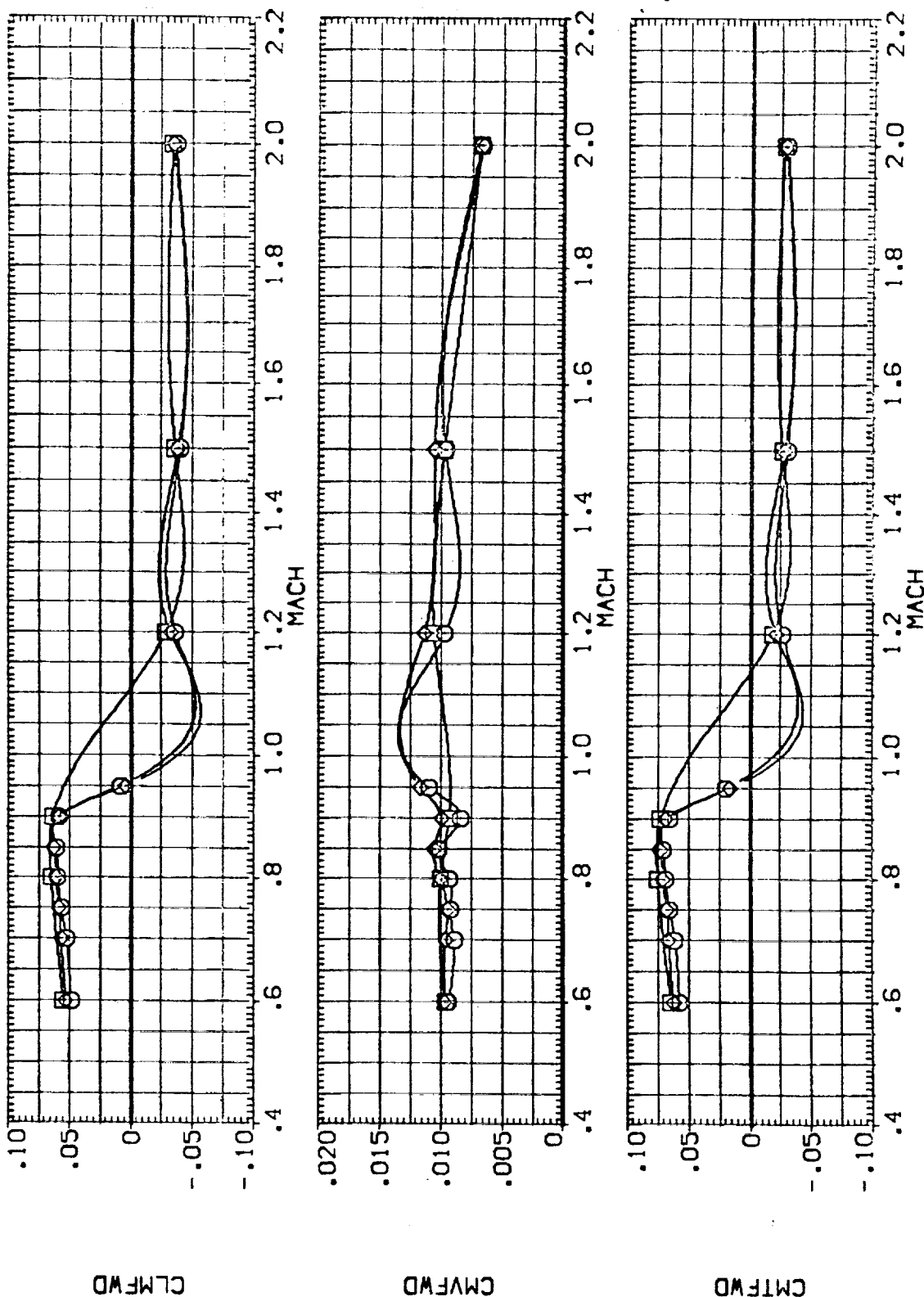


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 QAS9 DALLIA-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709 QAS9 DALLIA-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709 QAS9 DALLIA-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

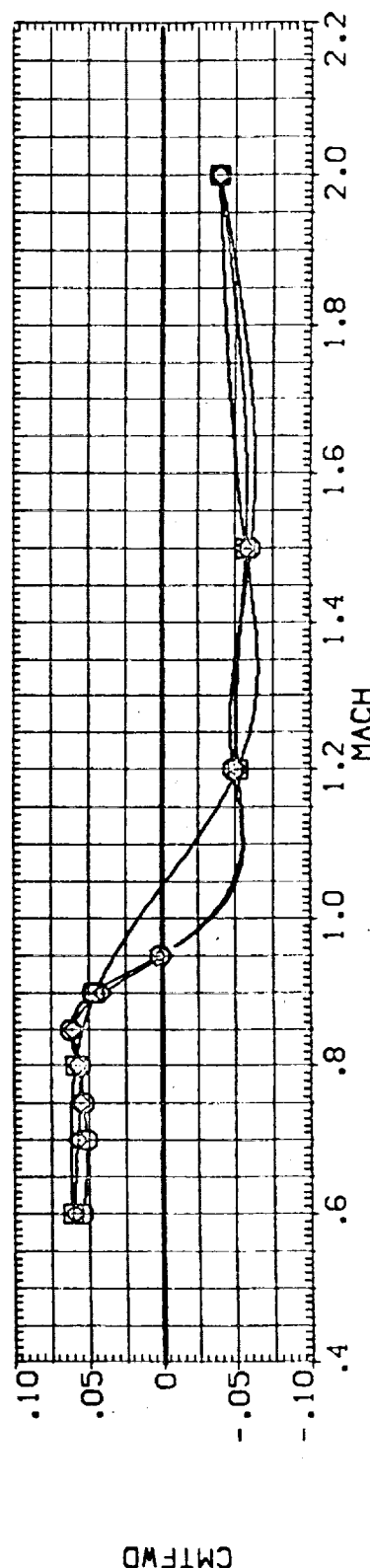
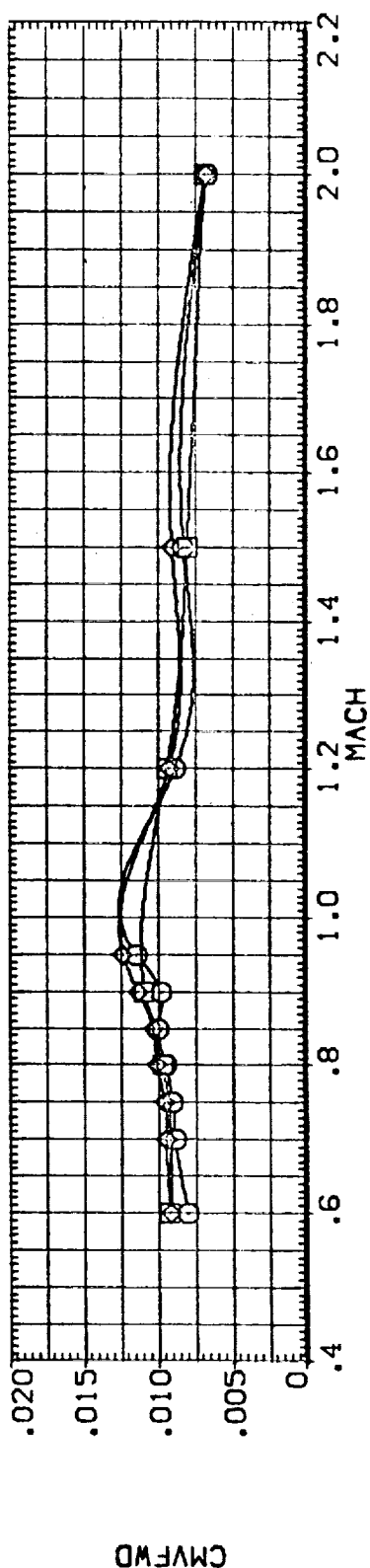
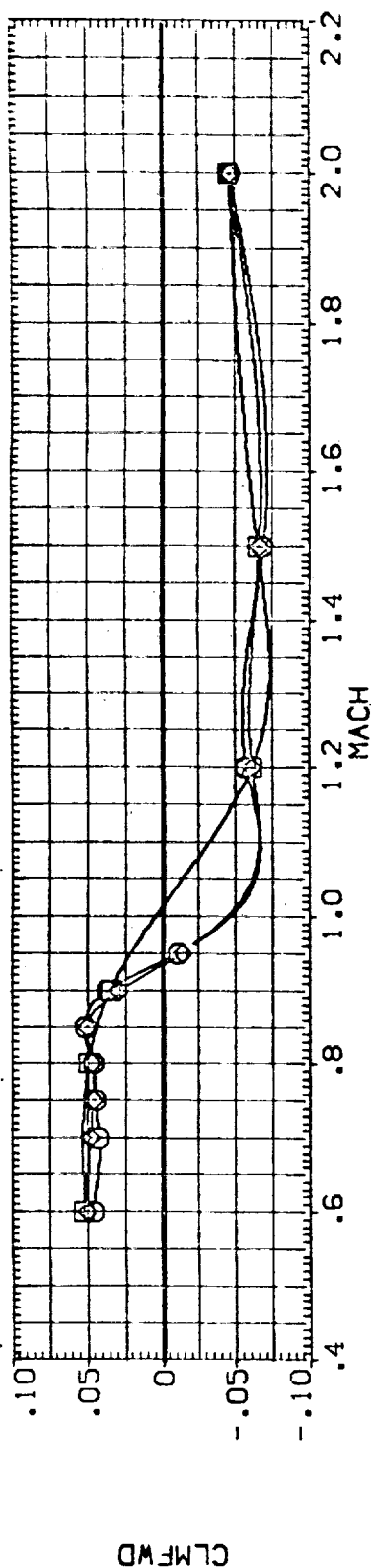


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

# DATA SET SYMBOL

(LER001)  
(LER009)  
(LER012)



# CONFIGURATION DESCRIPTION

ARC 66-709 DASS9 DAI1A-(N24 RS V8)+STRUT+DUM STING  
ARC 66-709 DASS9 DAI1A-(N24 RS V8)+STRUT  
ARC 66-709 DASS9 DAI1A-(RS V8)+STRUT

# BETA

.000  
.000  
.000

# ELEVON

.000  
.000  
.000

# BOFLAP

-11.700  
-11.700  
-11.700

# REFERENCE INFORMATION

SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

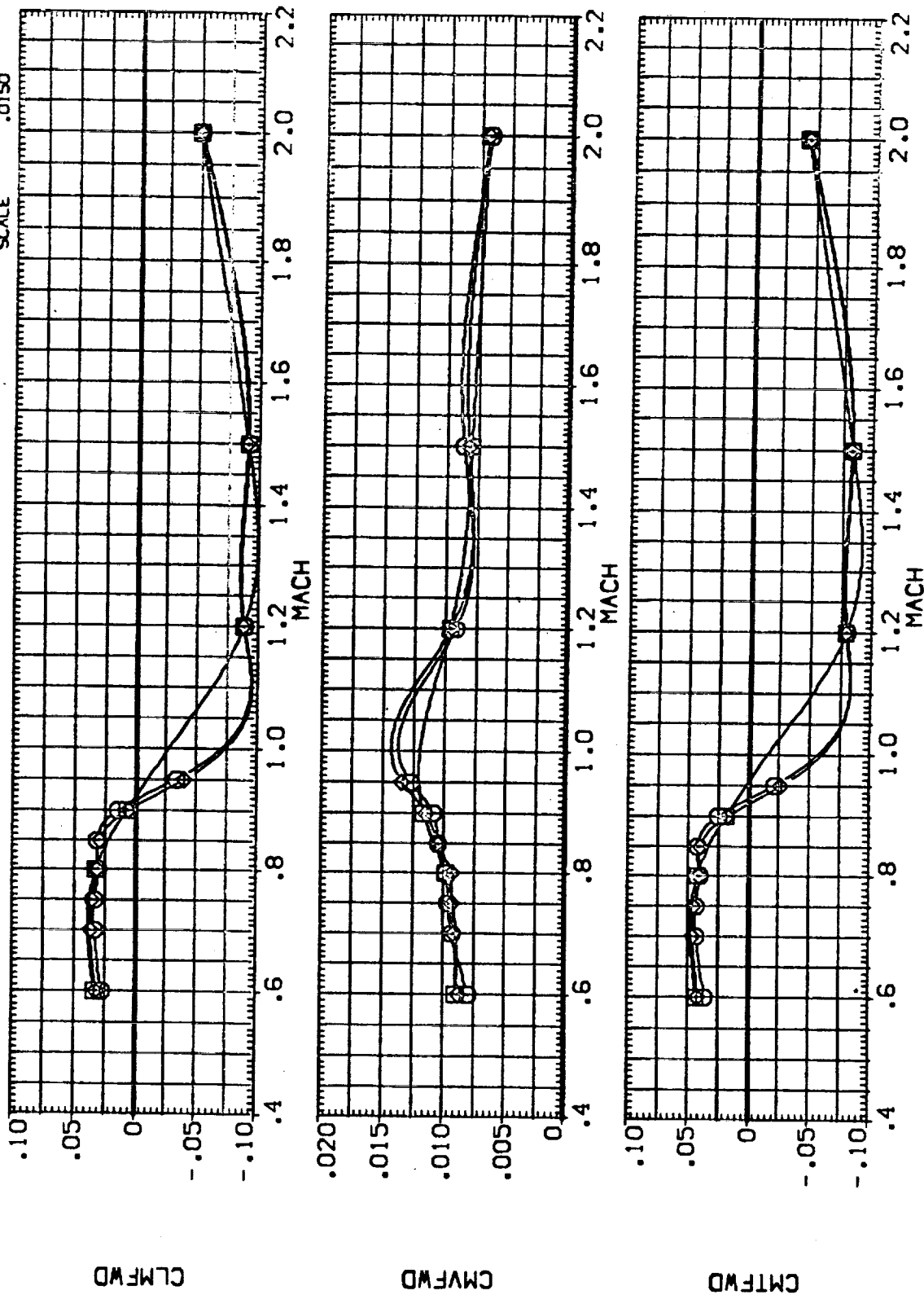


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00



DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(LER001)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG

(LER009)    ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT

(LER012)    ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    .000    -11.700

.000    .000    -11.700

REFERENCE INFORMATION

SREF    .6753    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    IN.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

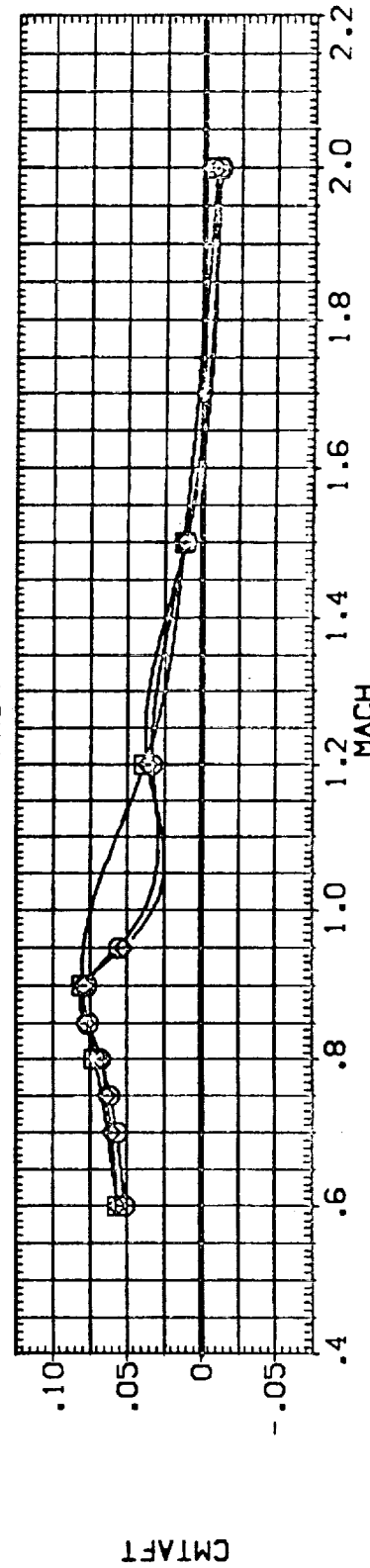
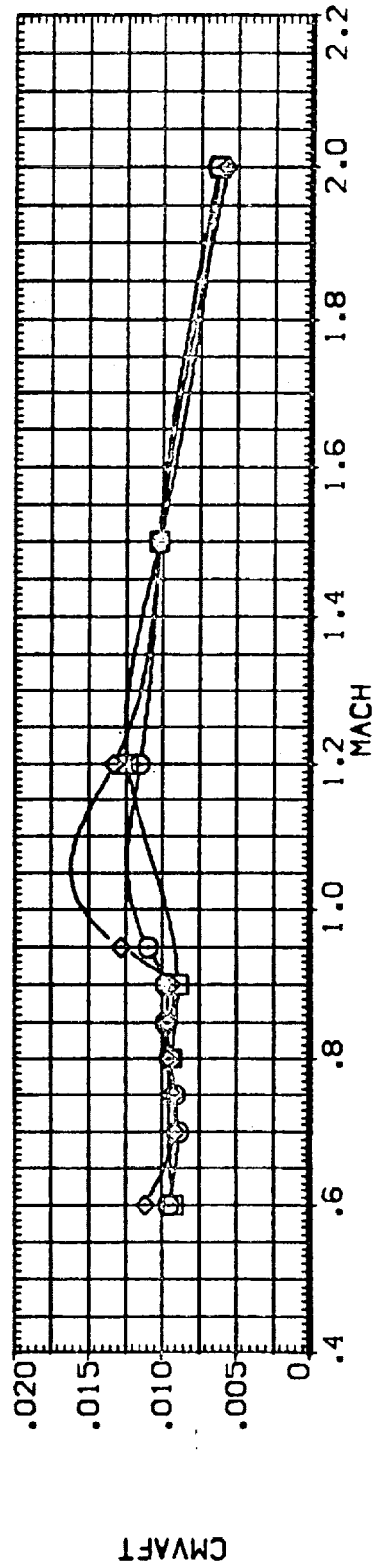
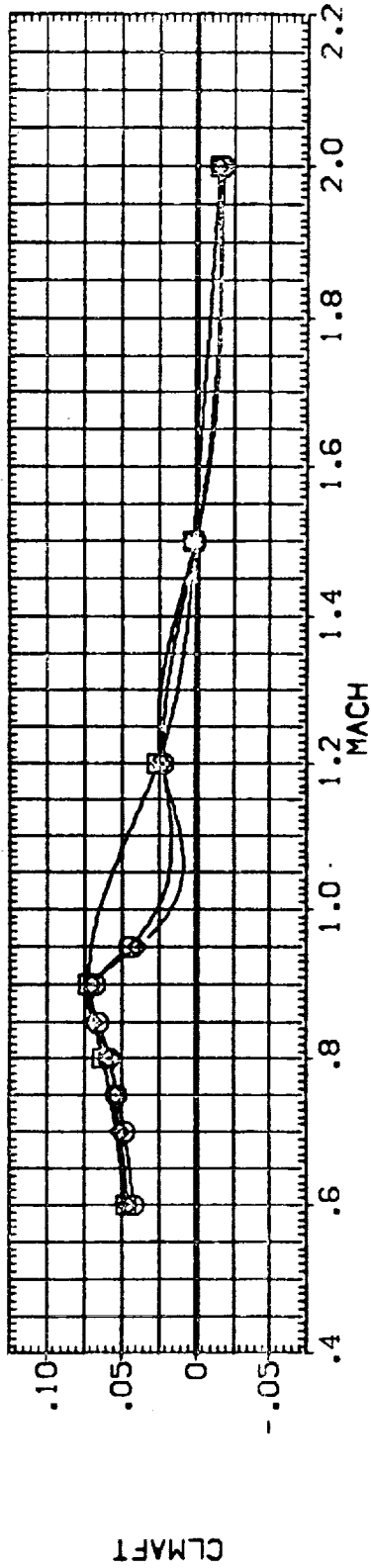


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A) ALPHA = .00

DATA SET SYMBOL  
(LER001)  
(LER008)  
(LER012)

CONFIGURATION DESCRIPTION  
ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT+DUM STNG  
ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT  
ARC 66-709 DASS DALLA-(RS V8)+STRUT

BETA  
.000  
.000  
.000

ELEVON  
.000  
.000  
.000

BOFLAP  
-11.700  
-11.700  
-11.700

REFERENCE INFORMATION  
SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

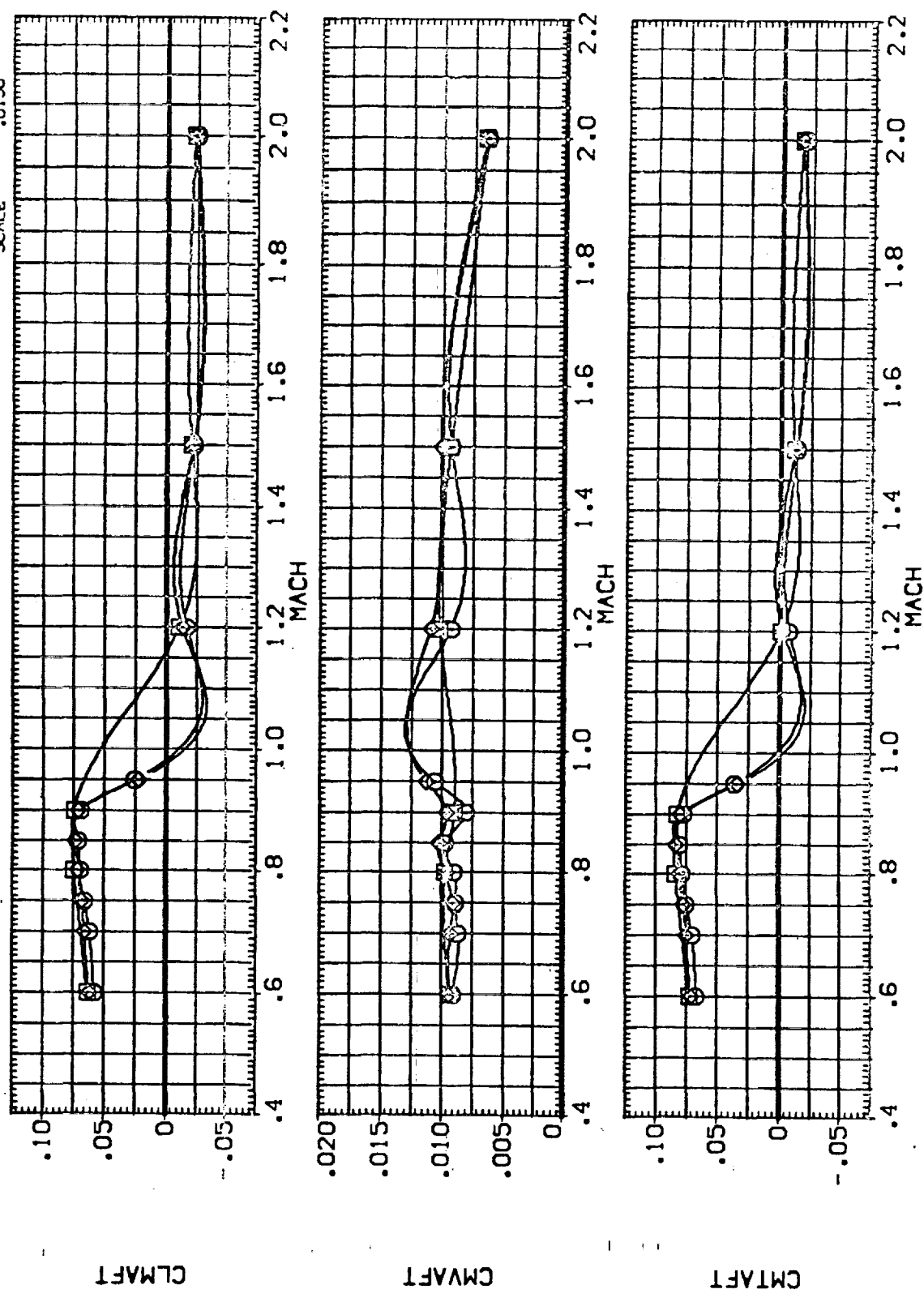


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B)ALPHA = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(LER001)  
(LER009)  
(LER012)

ARC 66-709 QAS9 0A11A-(N24 R5 V8)\*STRUT+DUM STING  
ARC 66-709 QAS9 0A11A-(N24 R5 V8)\*STRUT  
ARC 66-709 QAS9 0A11A-(R5 V8)\*STRUT

BETA ELEVON BOFLAP  
.000 .000 -11.700  
.000 .000 -11.700  
.000 .000 -11.700

REFERENCE INFORMATION  
SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

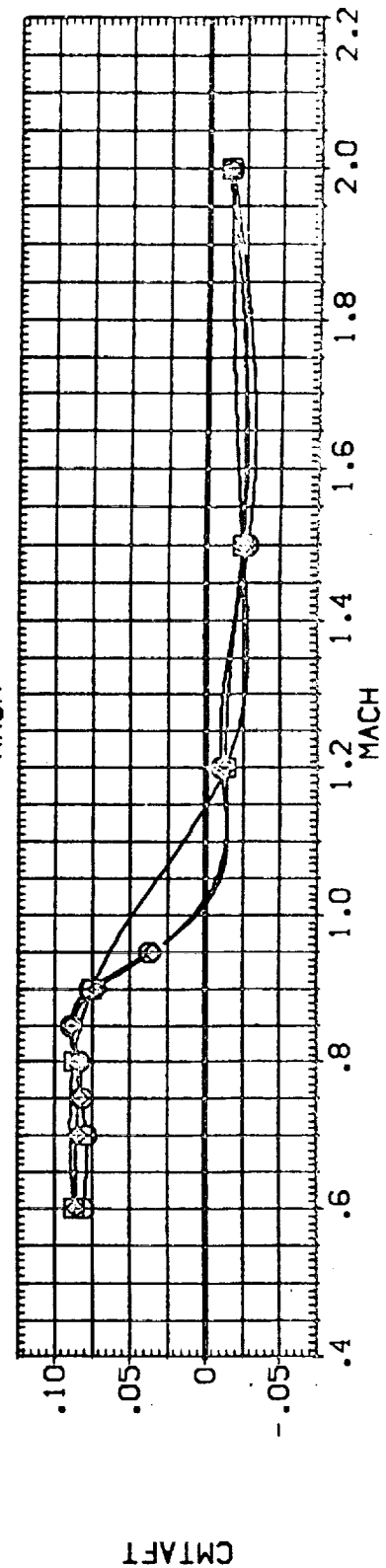
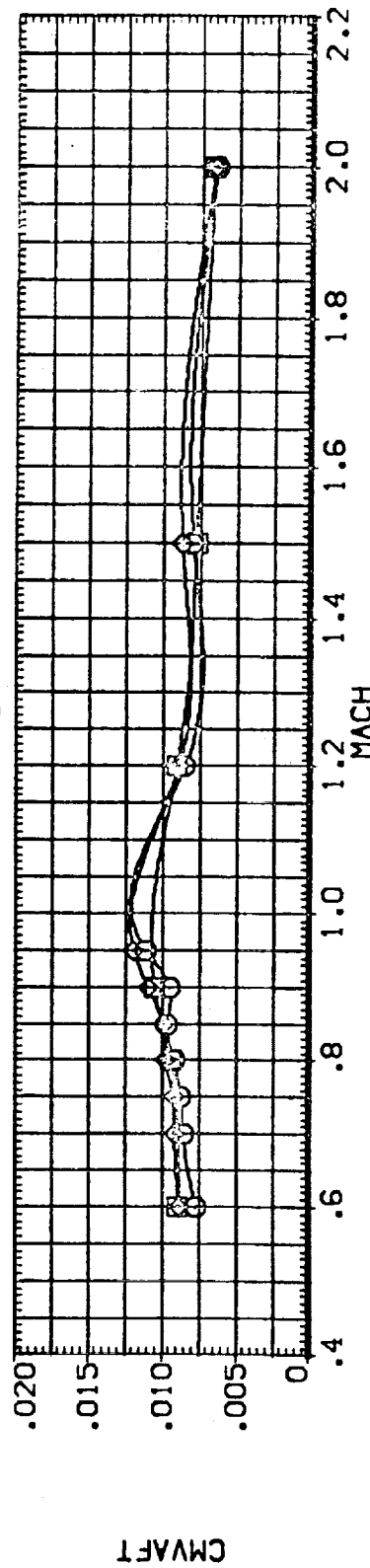
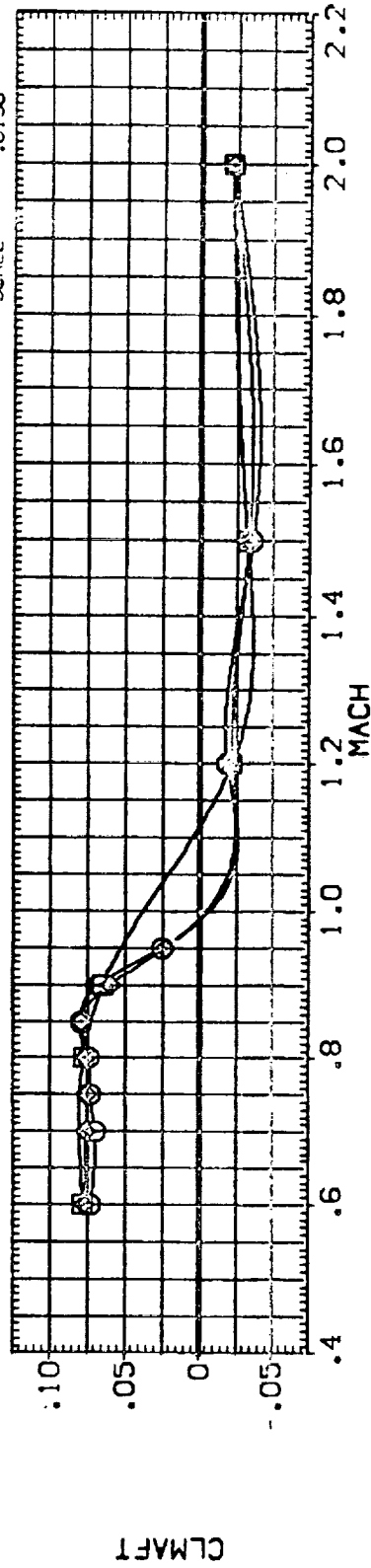


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(CJALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 DASS 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 50.FT.
(LER009)	ARC 66-709 DASS 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF 5935 FT.
(LER012)	ARC 66-709 DASS 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

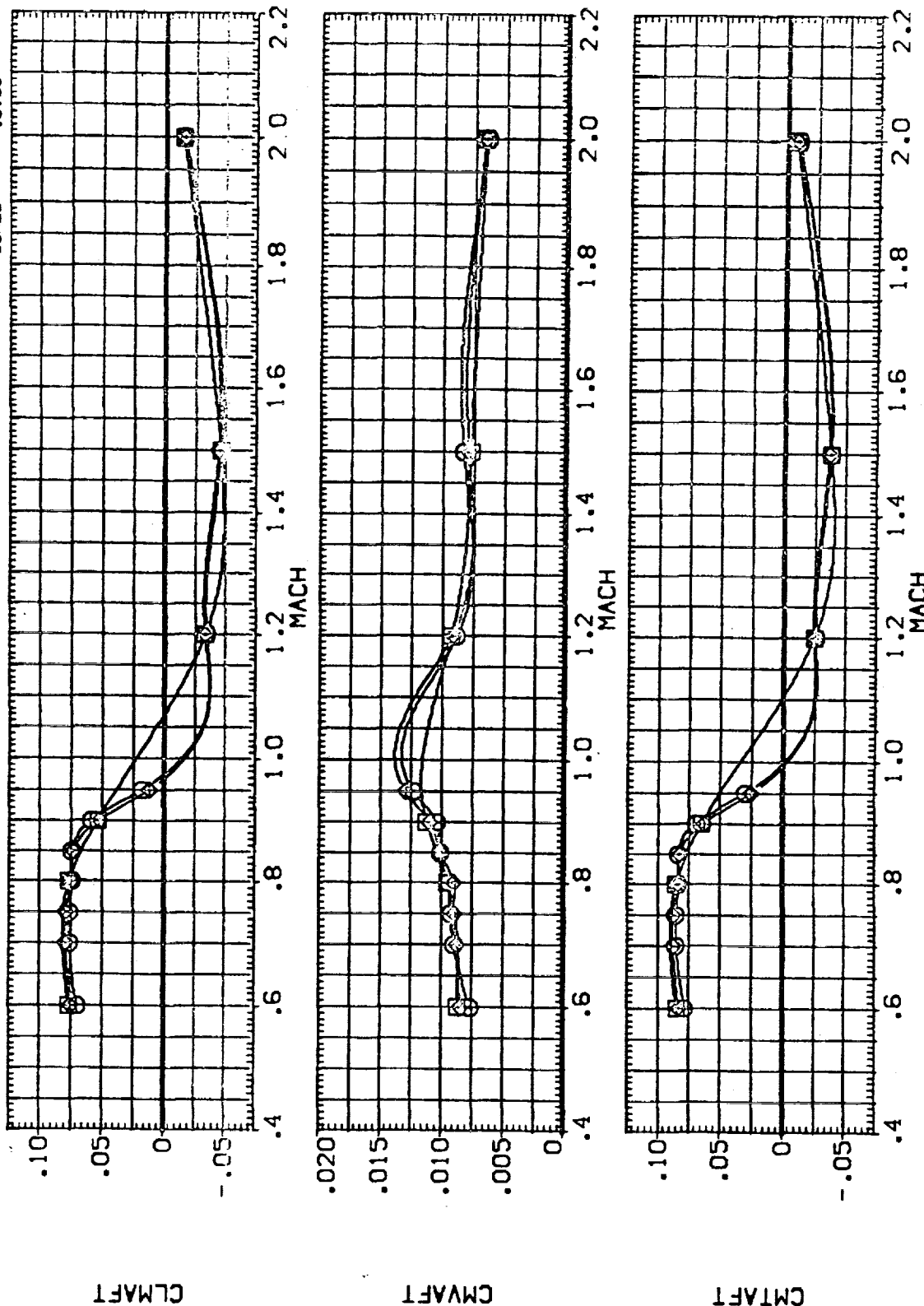


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D)ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 0A59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709 0A59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709 0A59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

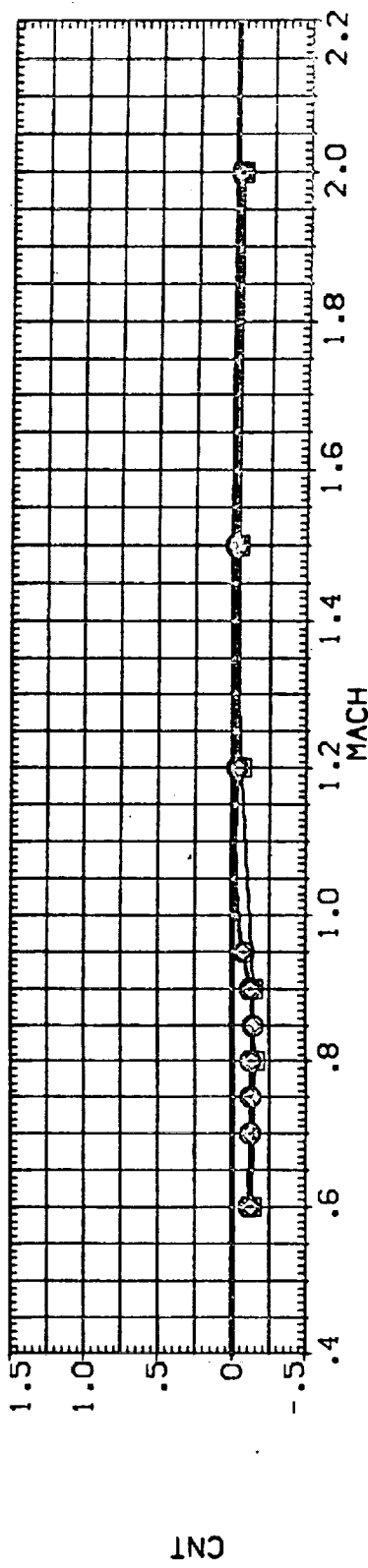
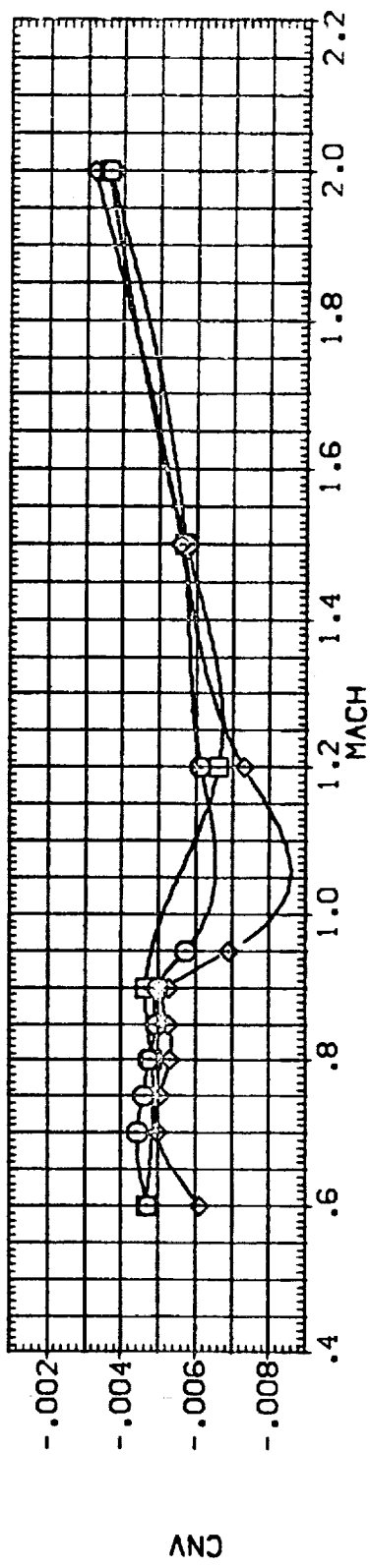
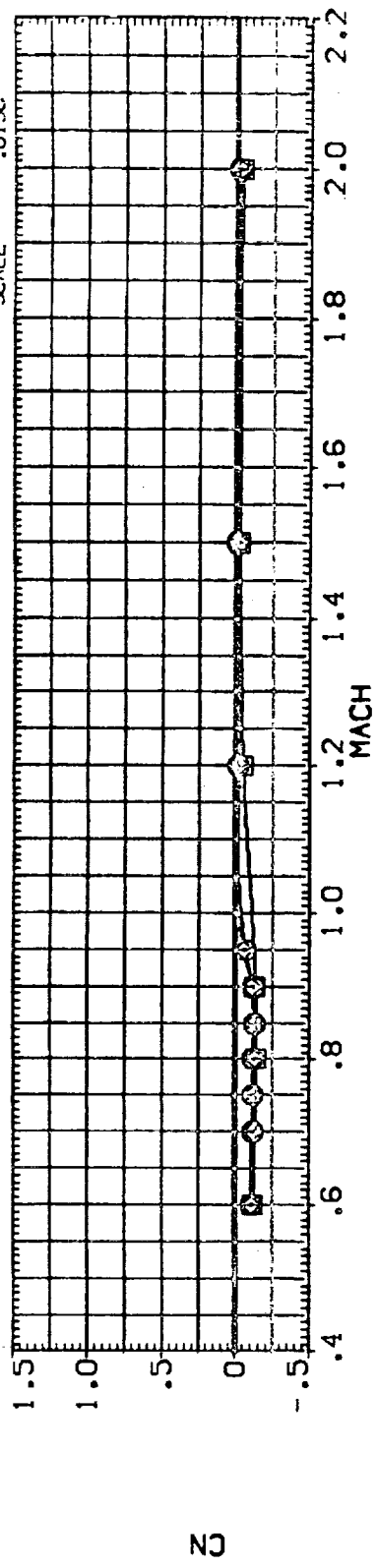


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(ALPHA = .00

DATA SET SYMBOL	CONF	IGURATION	DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC	66-709	DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .5053 SQ.FT.
(LER009)	ARC	66-709	DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC	66-709	DA11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
							XMRP 12.6255 IN.
							YMRP .0000 IN.
							ZMRP -.3750 IN.
							SCALE .0150

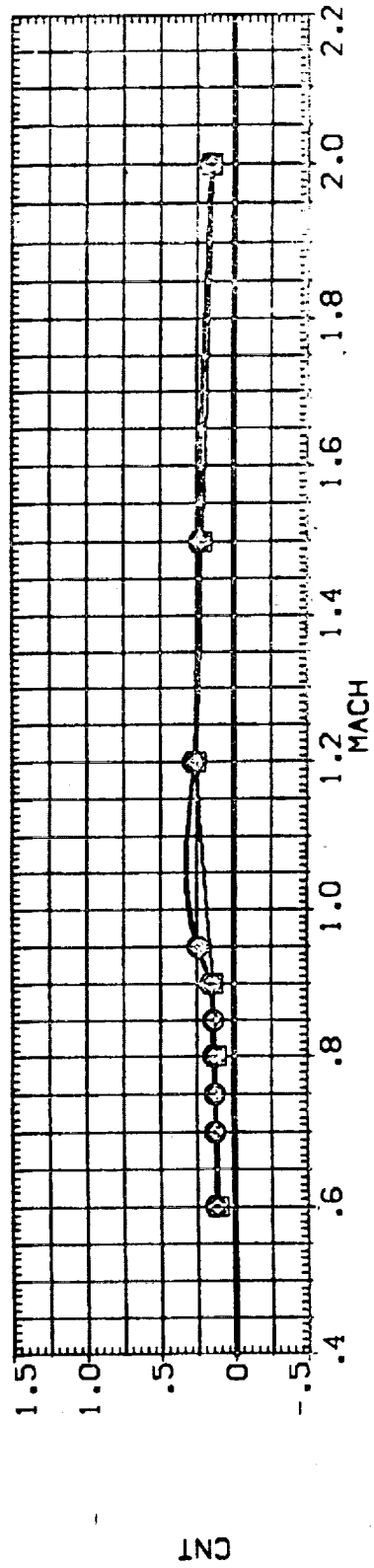
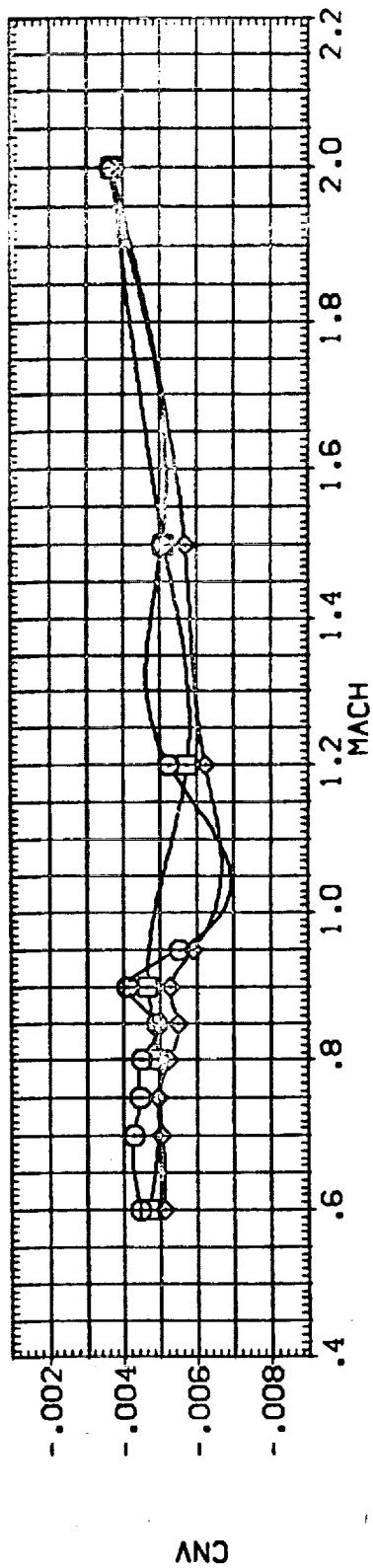
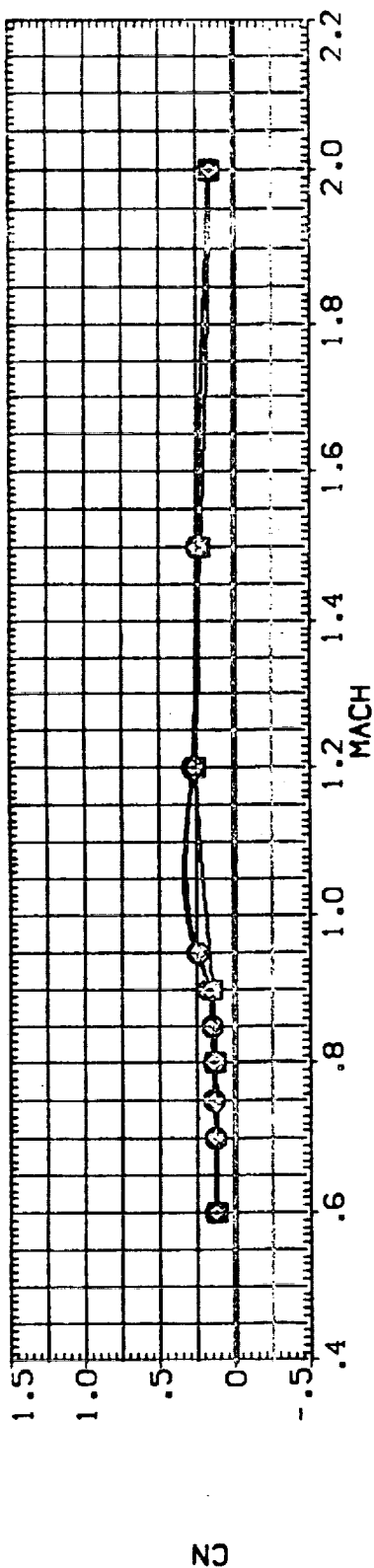


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LERO01)	ARC 66-709 DASS DAI1A-(N24 RS V81)+STRUT+DUM SING.	.000	.000	-11.700	SREF .6053 SQ.FT.
(LERO09)	ARC 66-709 DASS DAI1A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LERO12)	ARC 66-709 DASS DAI1A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

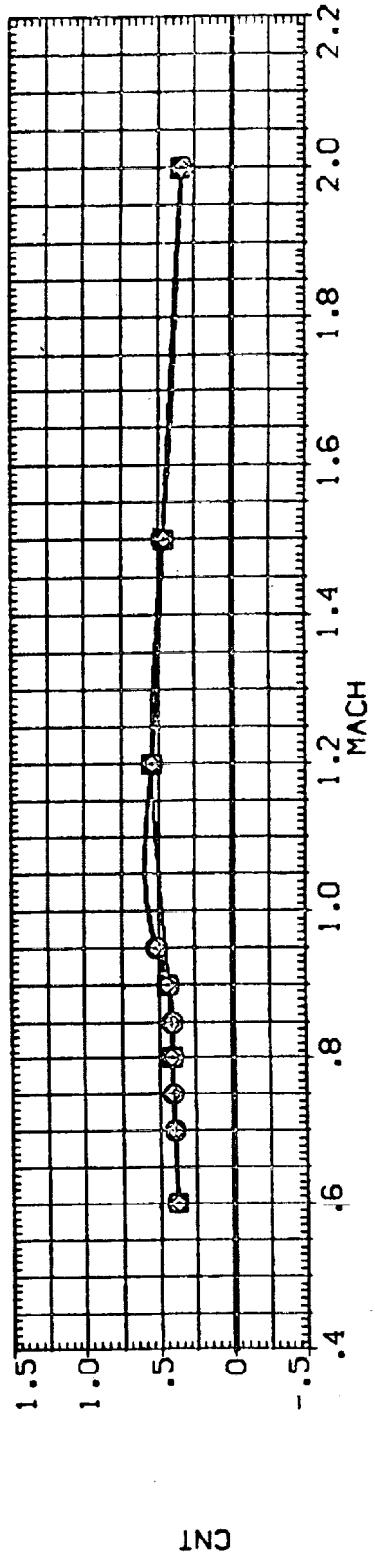
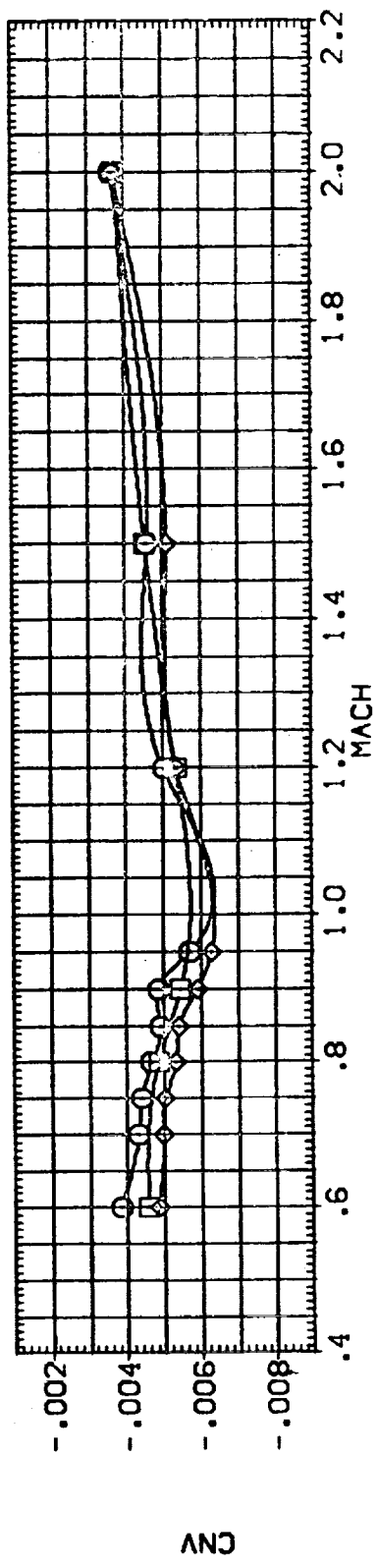
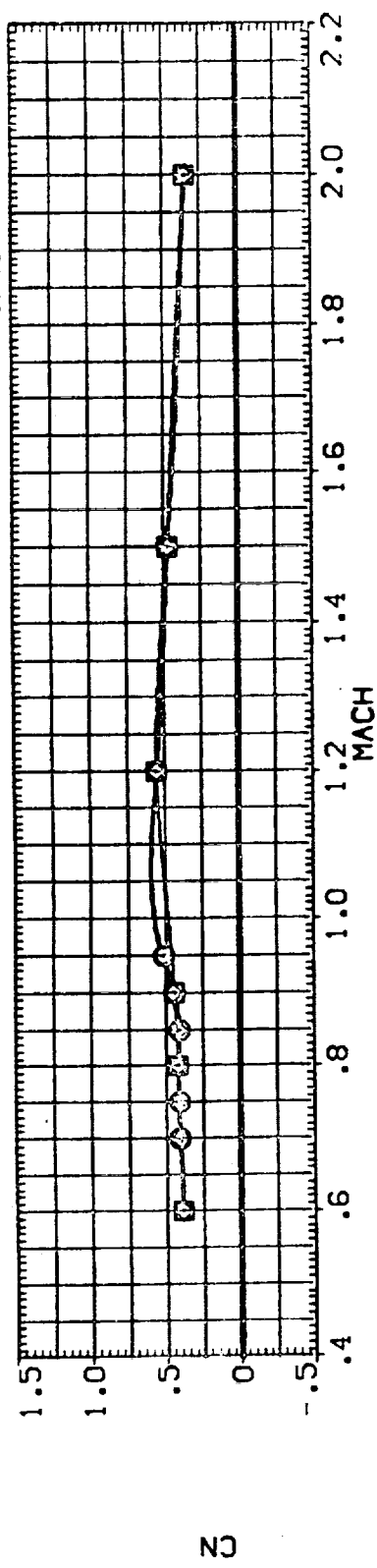
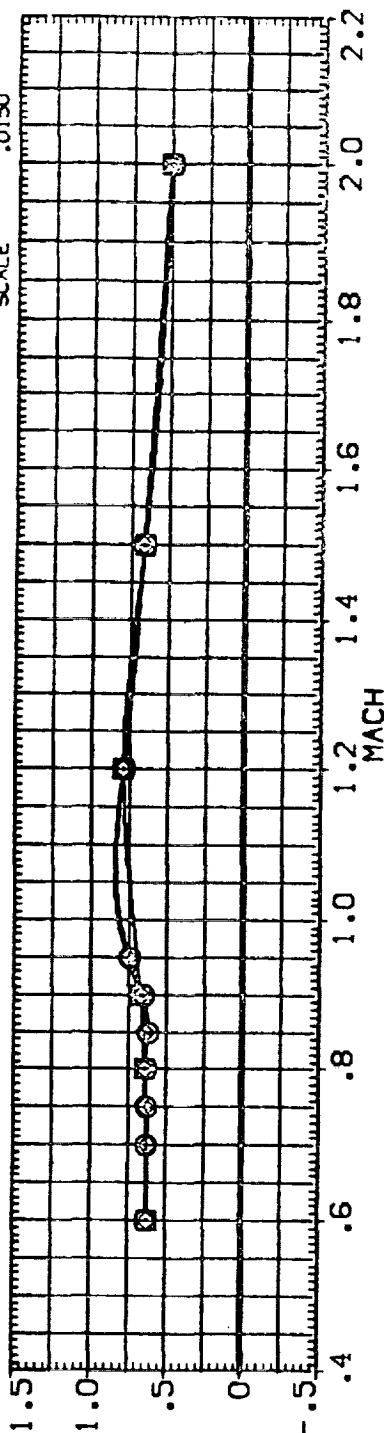


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

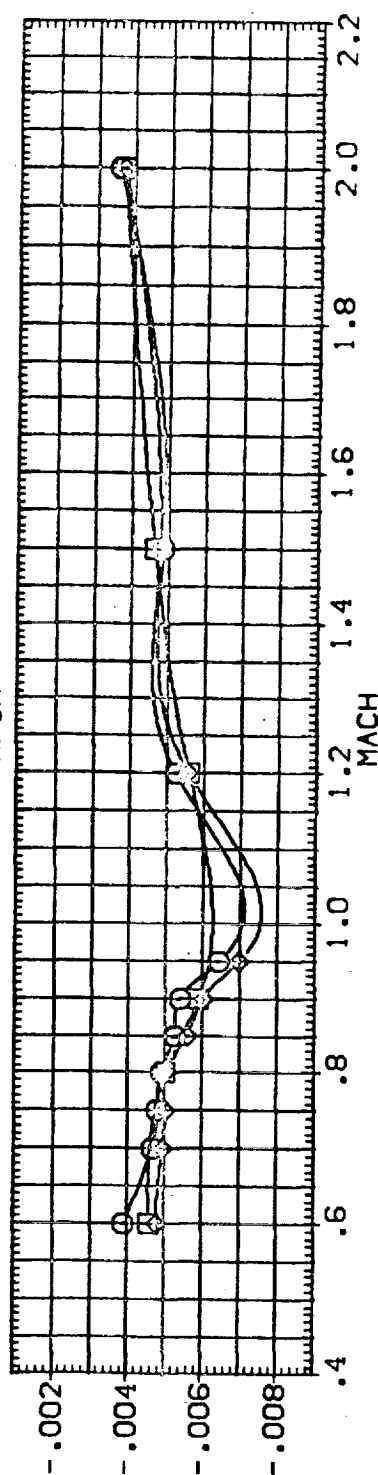
DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (LER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING  
 (LER009) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT  
 (LER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700

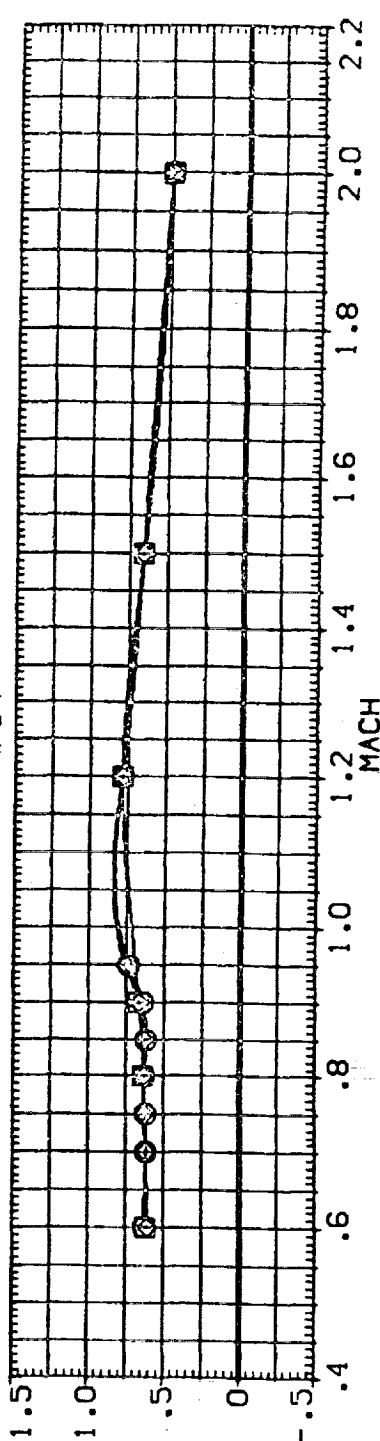
REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150



CN



CNV



CNT

FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(DJ)ALPHA = 14.00



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    BETA    ELEVON    BOFLAP

(MER001)    ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG    .000    .000    -11.700

(MER009)    ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT    .000    .000    -11.700

(MER012)    ARC 66-709 0A59 0A11A-(R5 V8)+STRUT    .000    .000    -11.700

REFERENCE INFORMATION

SREF    .6053    50.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

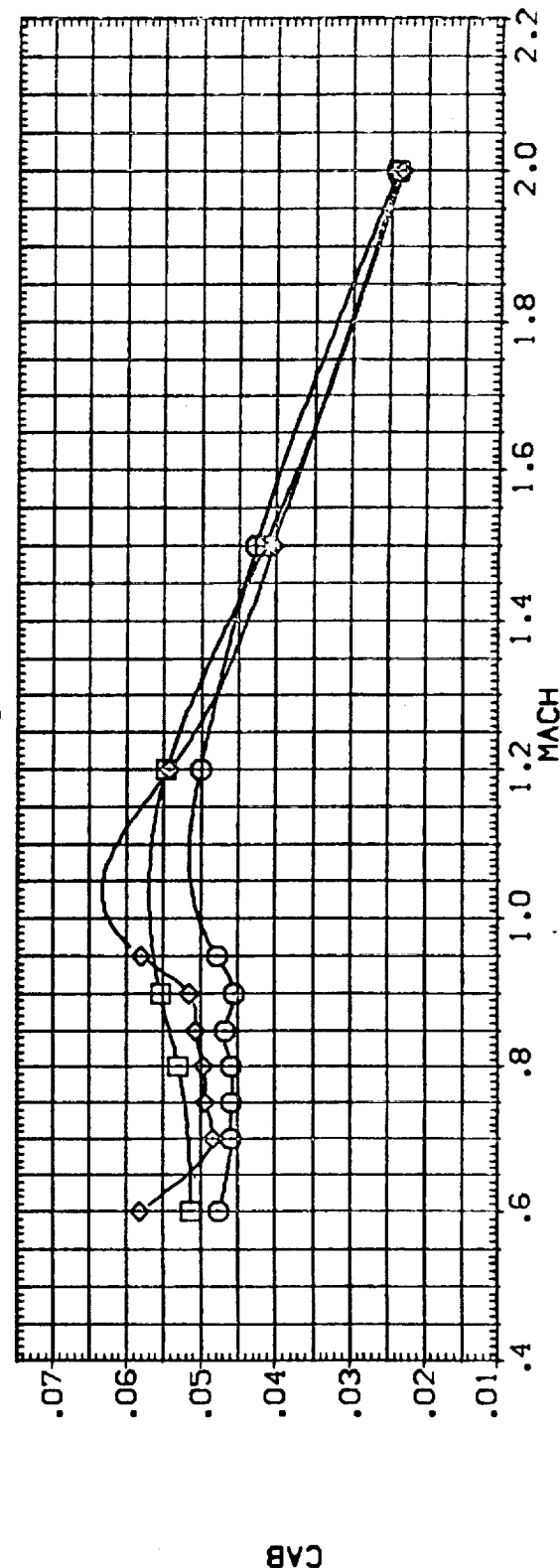
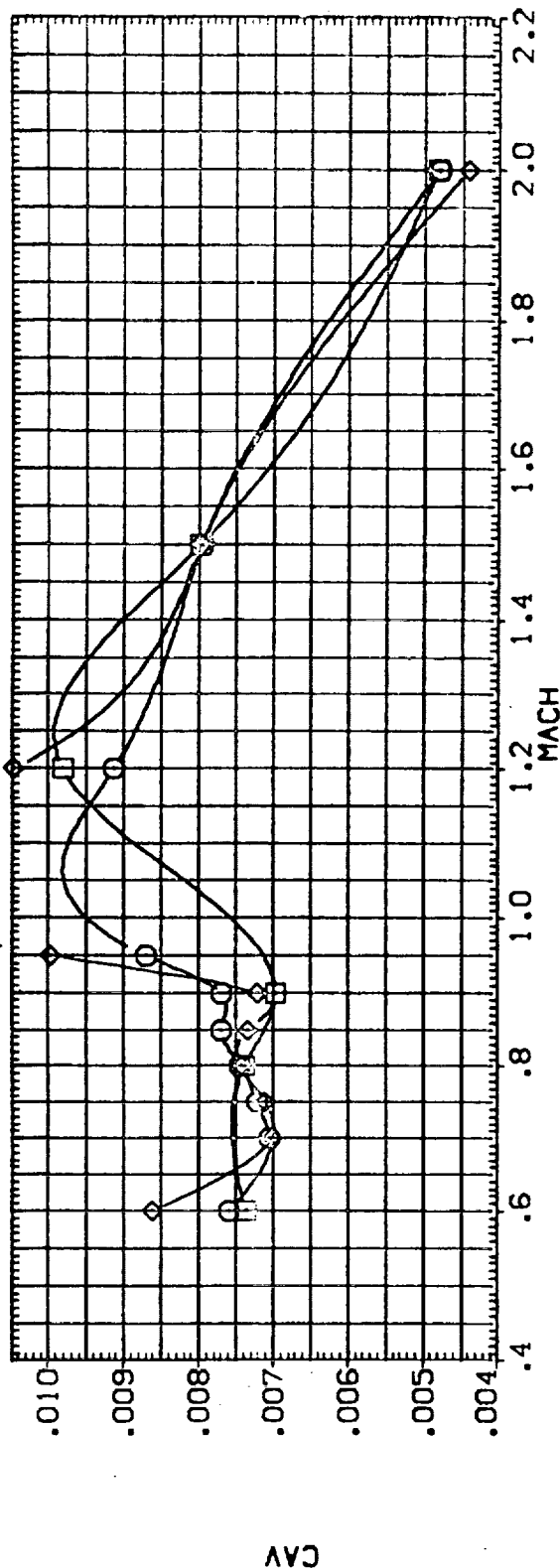


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

CALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(MER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 SQ.FT.
(MER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF 5935 FT.
(MER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRRP 12.6255 IN.
					YMRRP .0000 IN.
					ZMRRP -.3750 IN.
					SCALE .0150

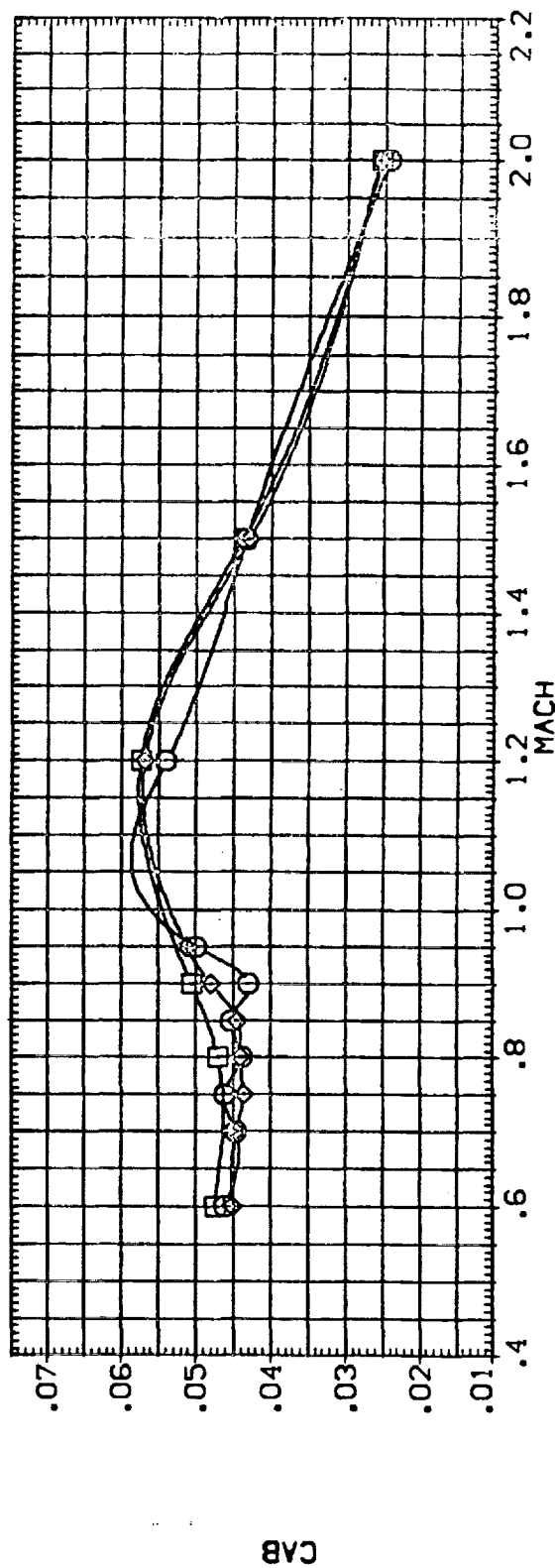
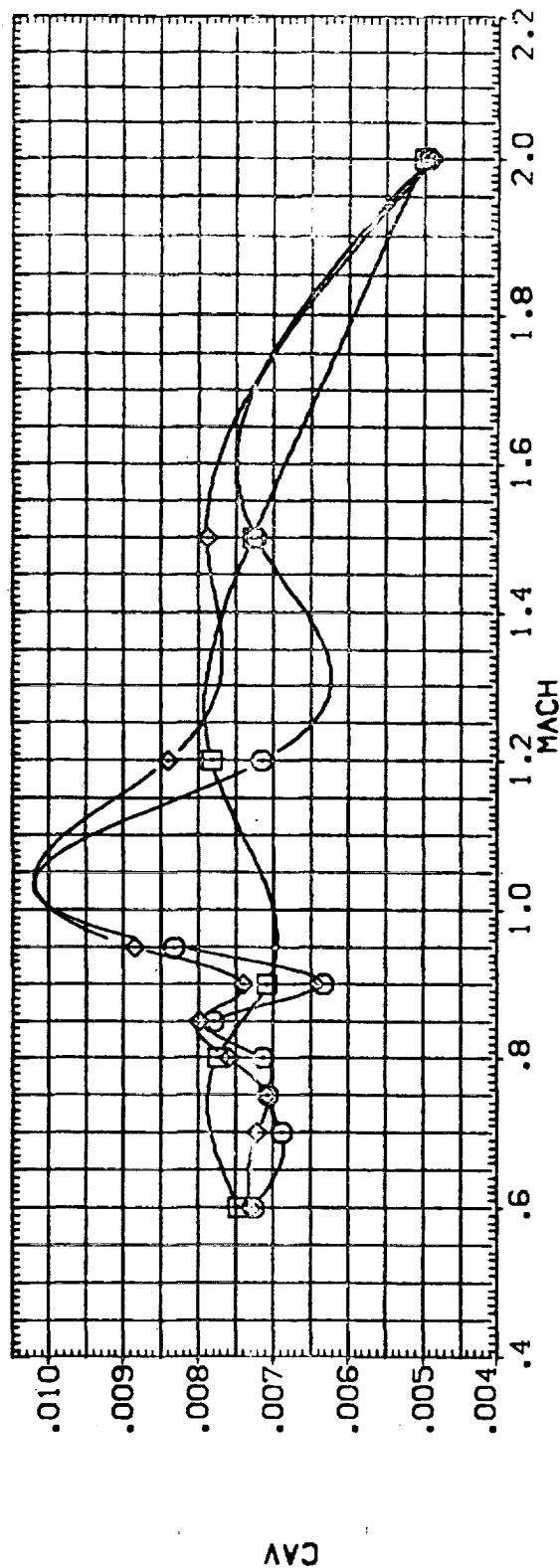


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(MER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(MER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(MER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

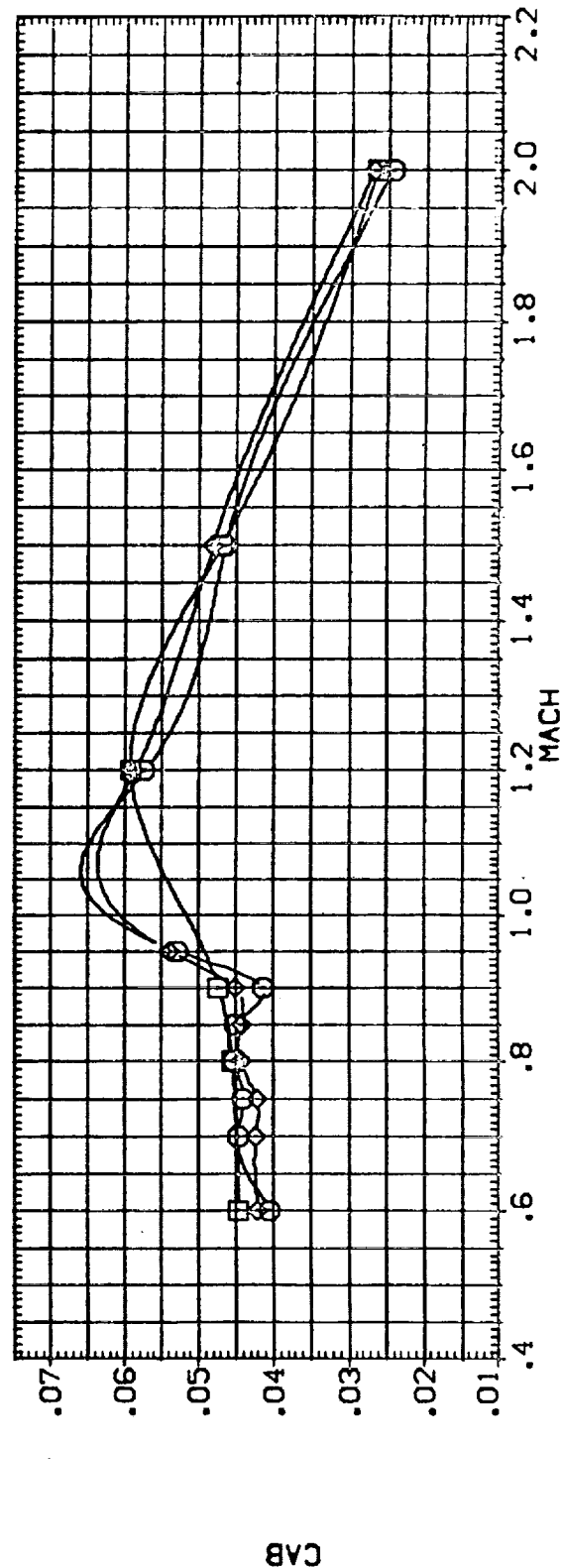
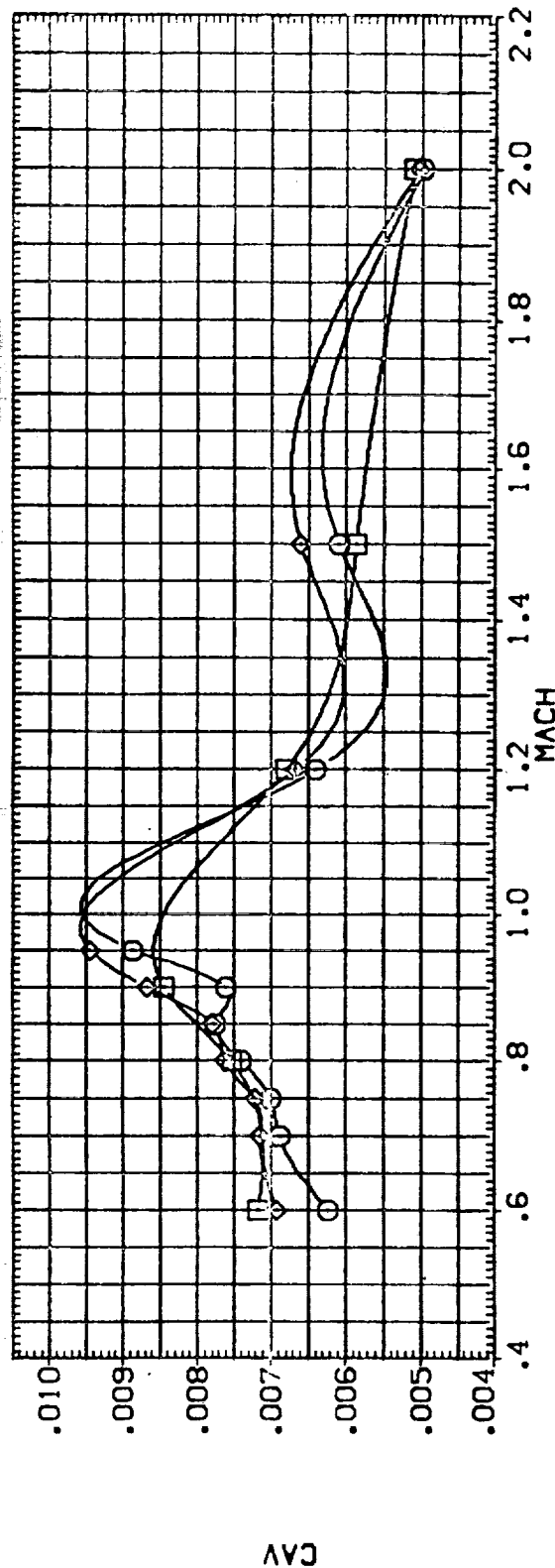


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(PER001)	ARC 66-709 DASS9 0A11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(PER009)	ARC 66-709 DASS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(PER012)	ARC 66-709 DASS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

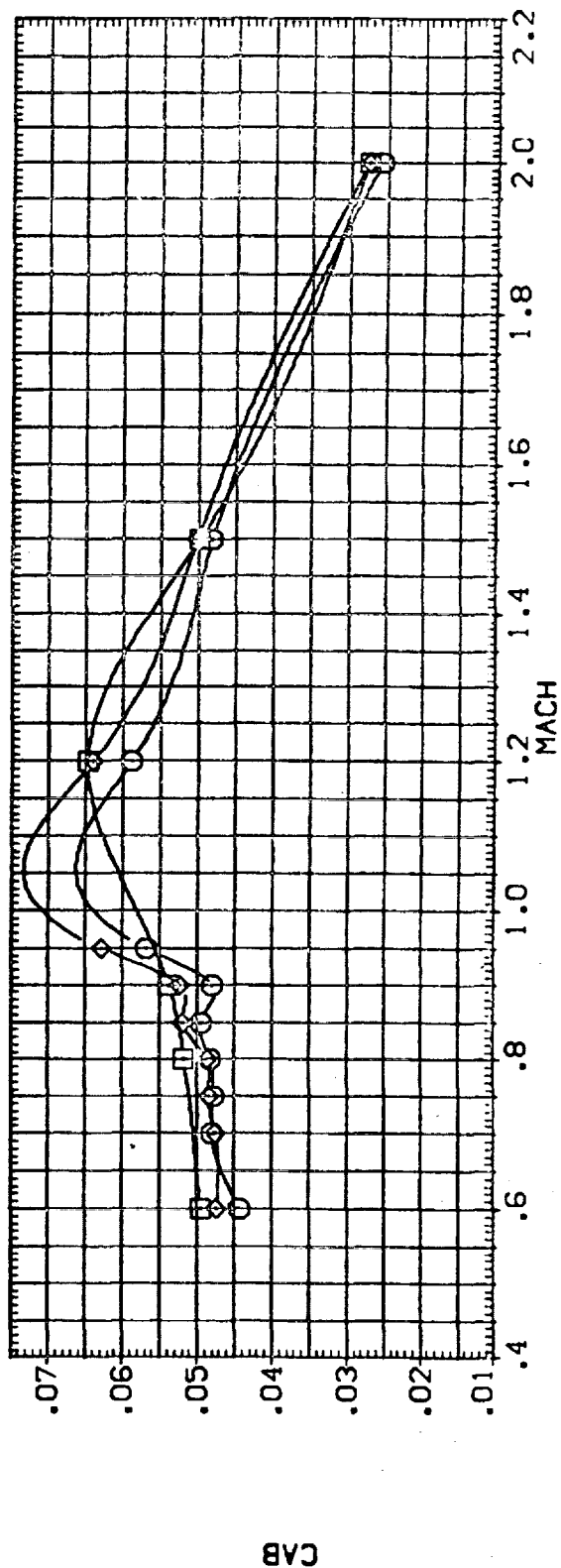
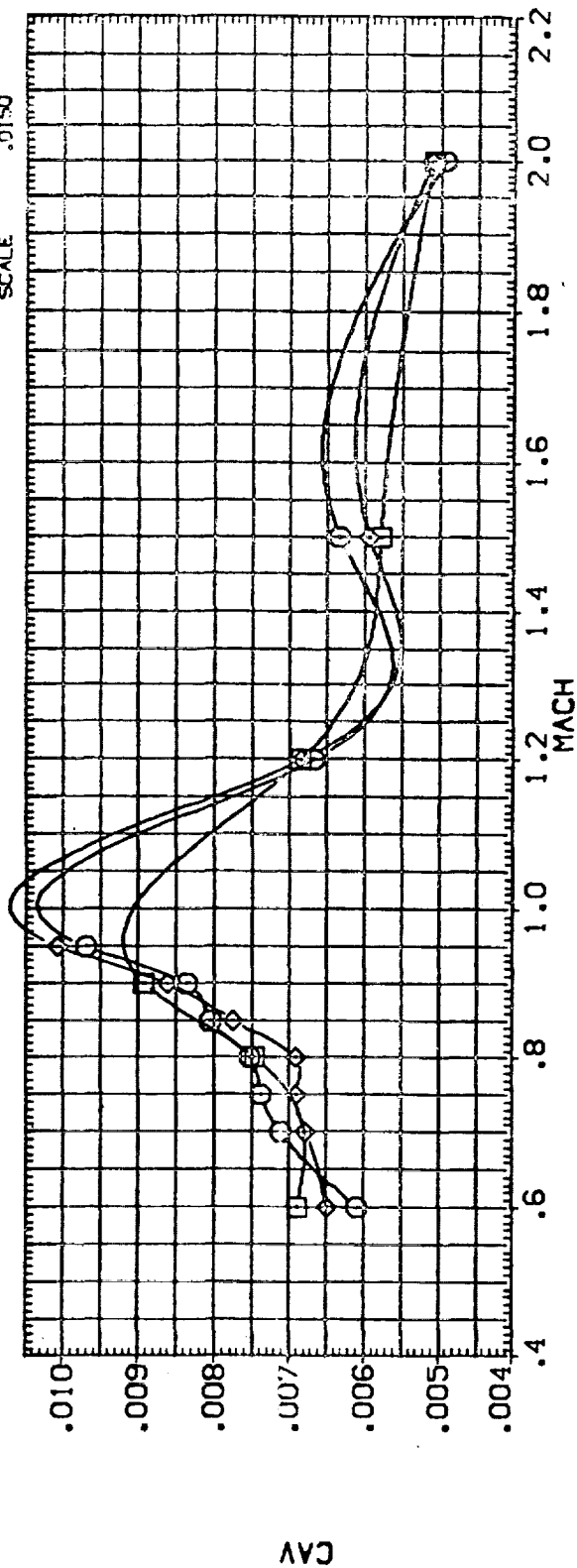


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(DJALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(MER001)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(MER005)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(MER012)	ARC 66-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

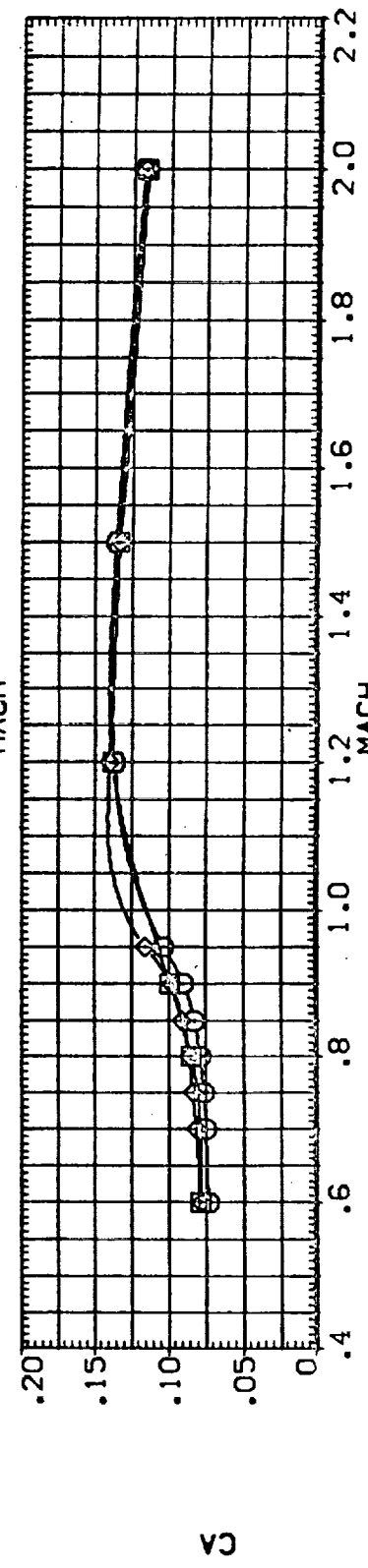
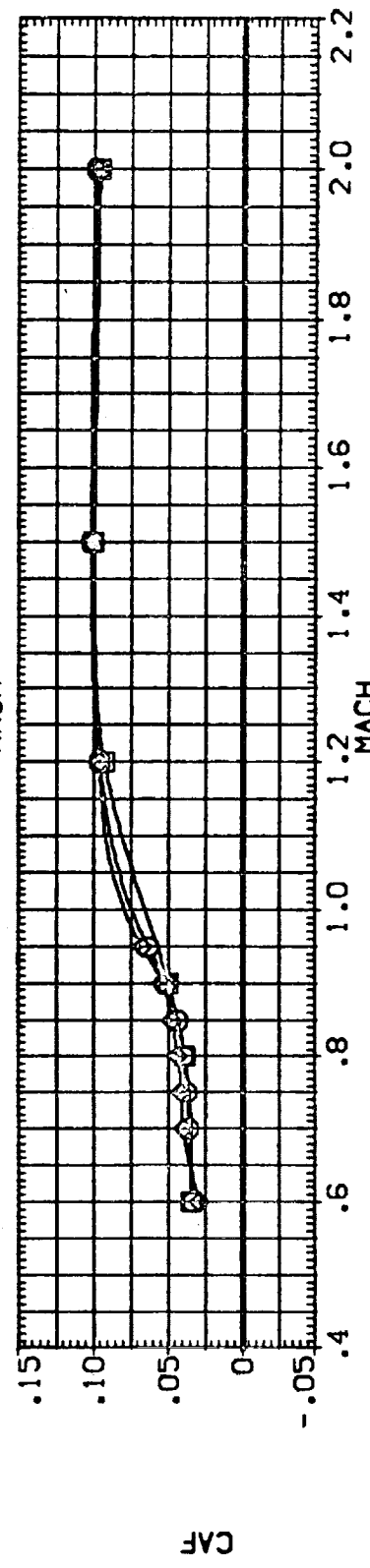
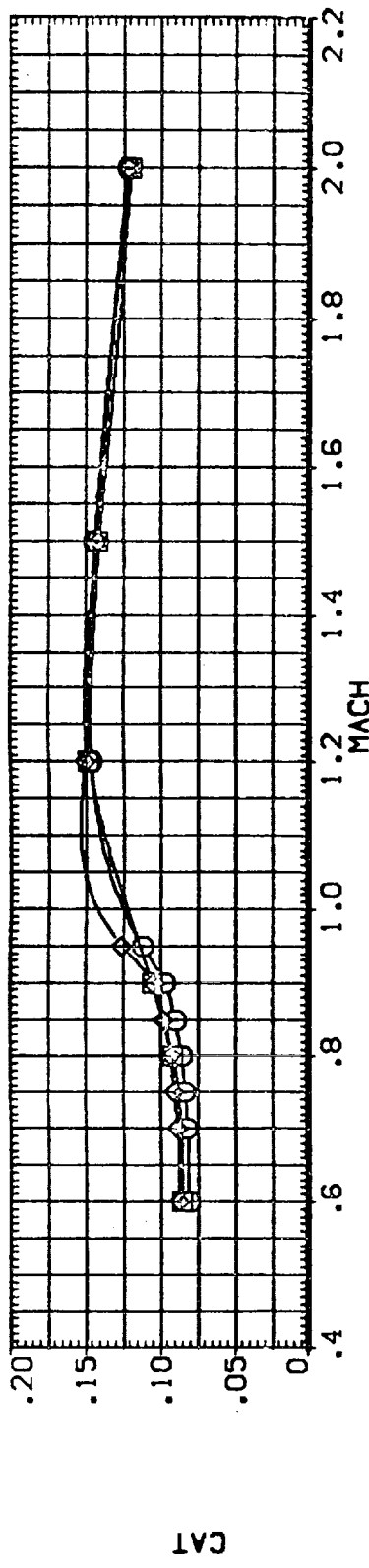


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A) ALPHA = .00

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(MER001)    ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT-QUM STNG

(MER008)    ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT

(MER012)    ARC 66-709 QAS9 0A11A-(RS V8)-STRUT

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    .000    -11.700

.000    .000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5335    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0003    IN.

ZMRP    -.3750    IN.

SCALE    .0150

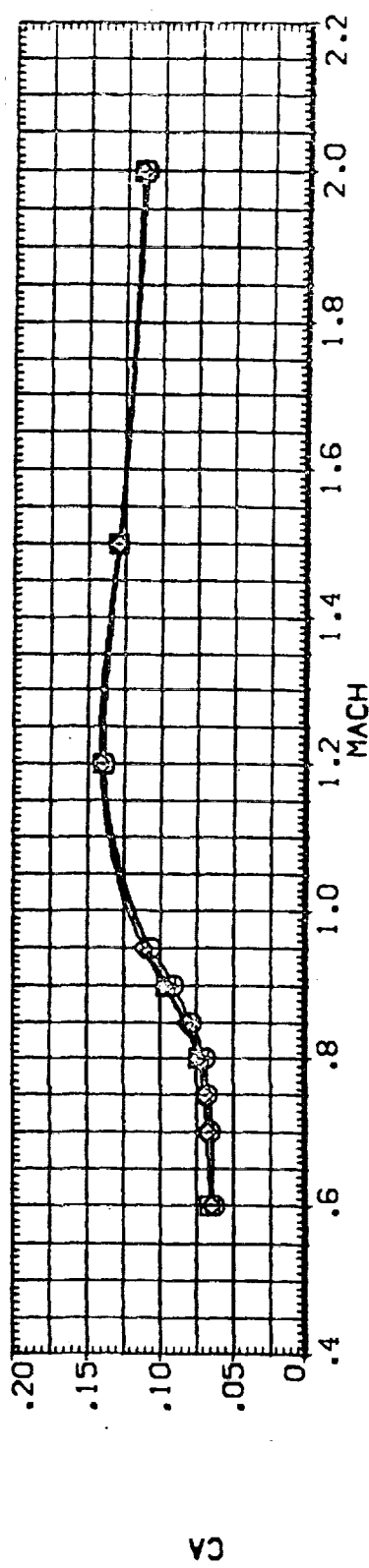
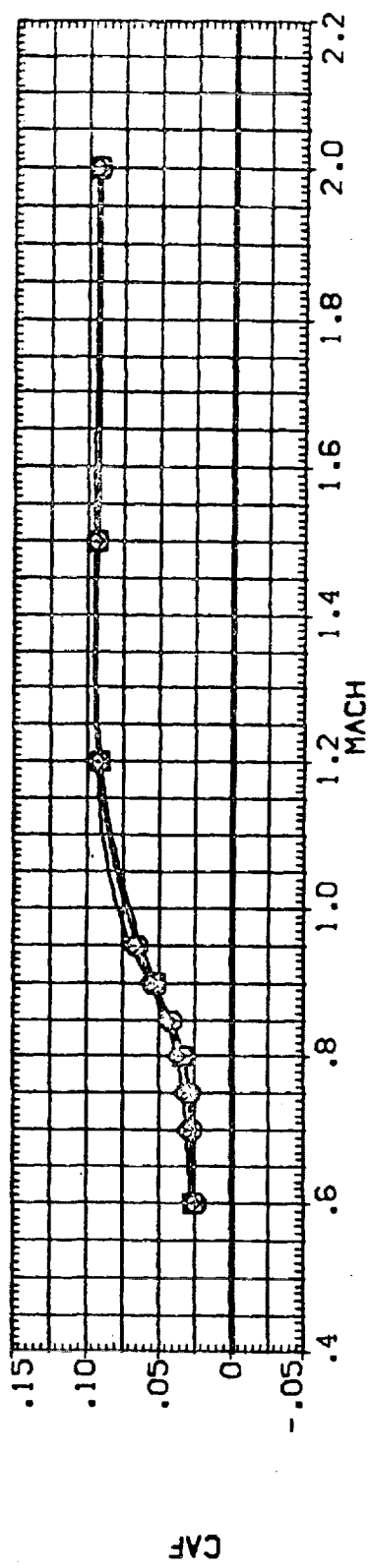
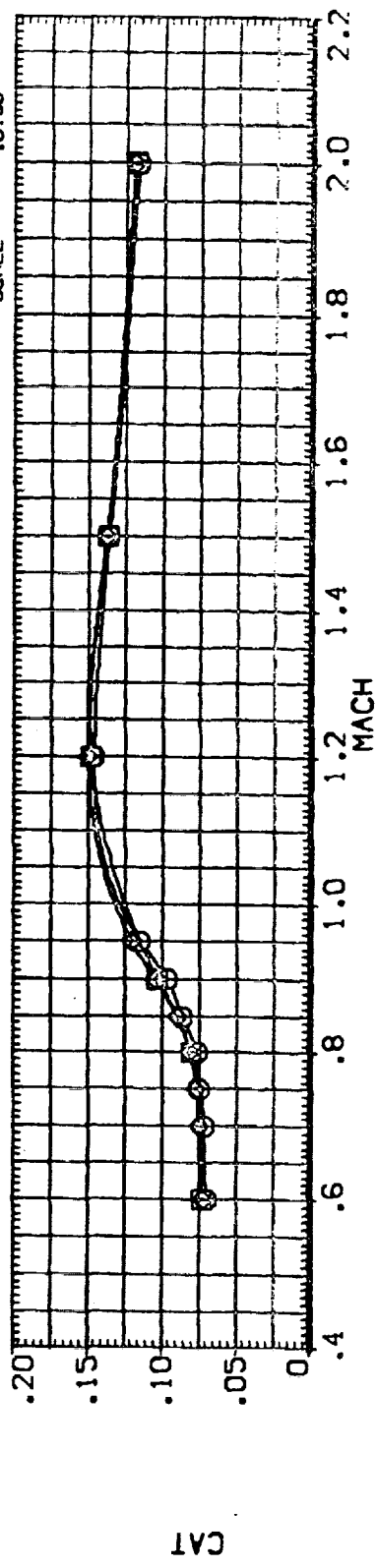


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(MER001)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(MER009)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(MER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

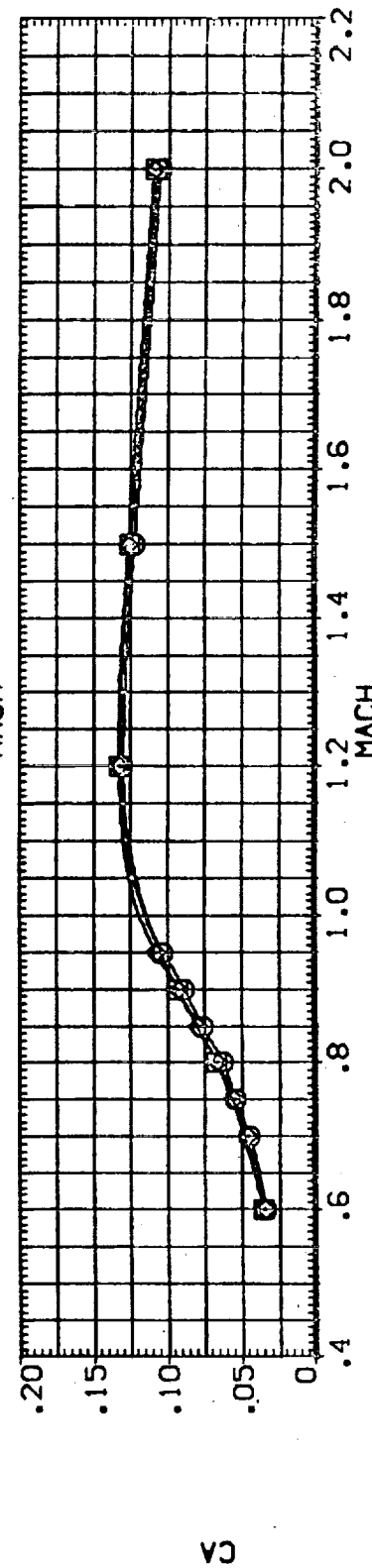
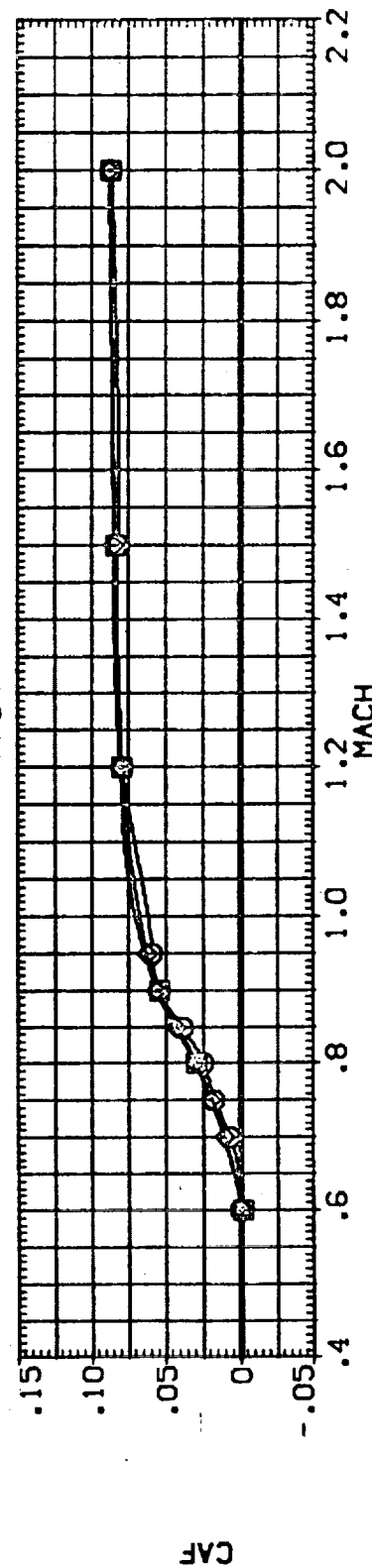
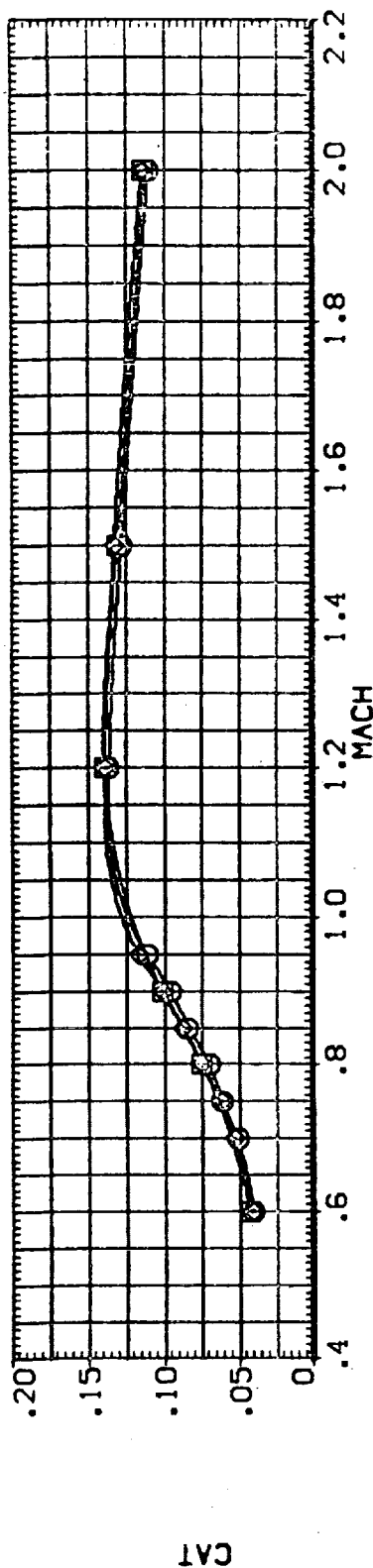


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(CJ)ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (MERO01) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG  
 (MERO09) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT  
 (MERO12) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

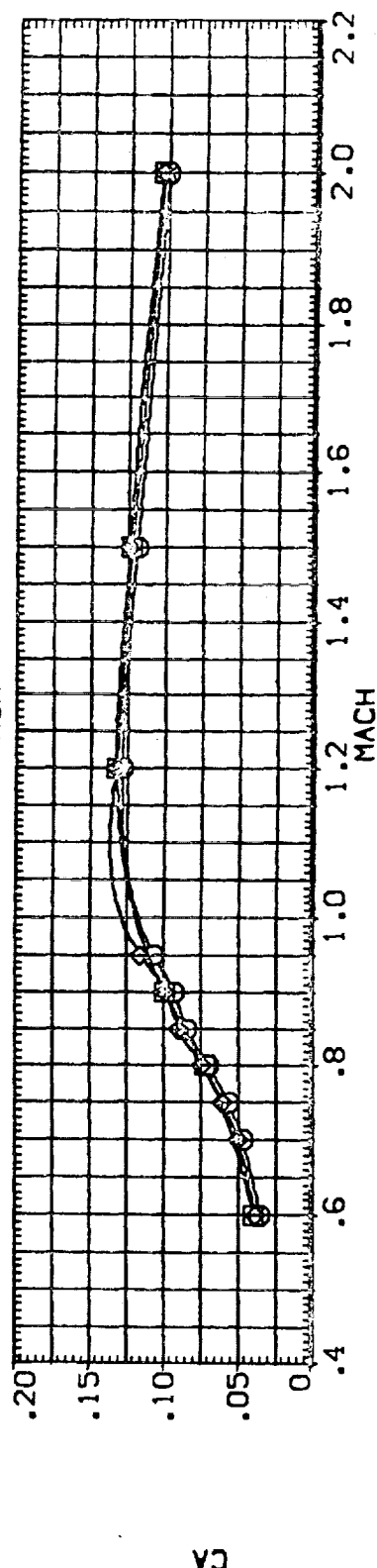
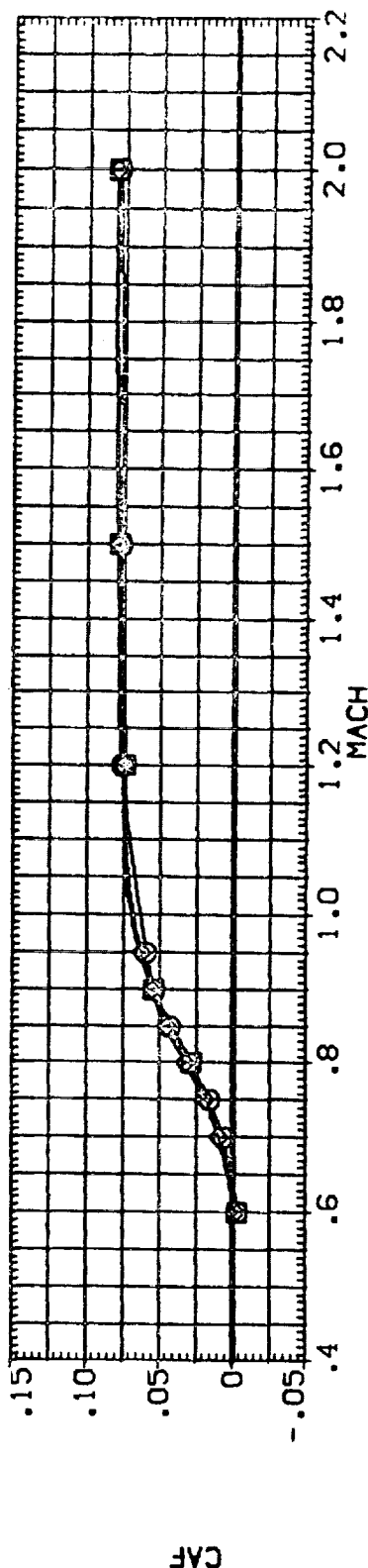
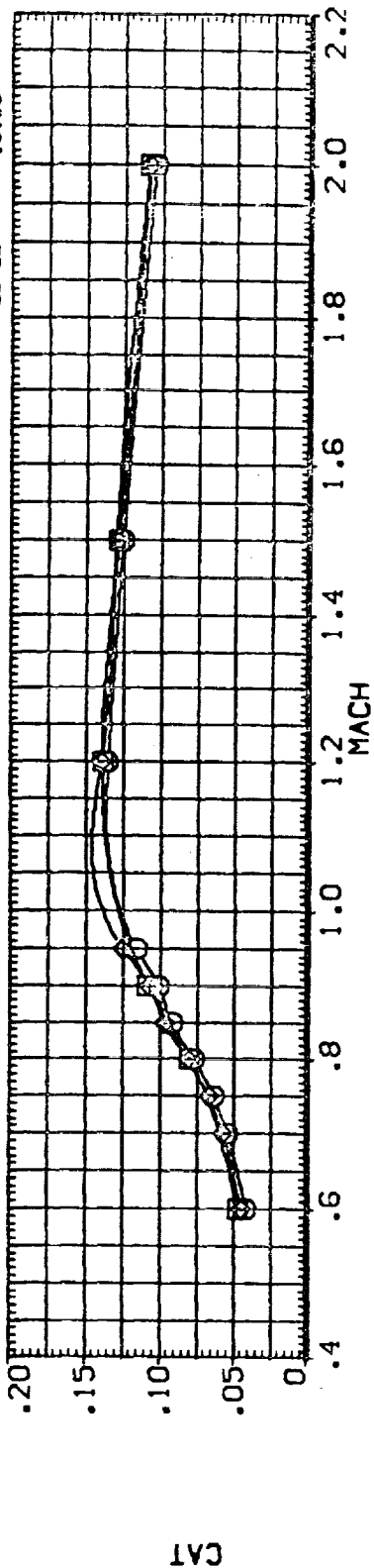


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .5053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

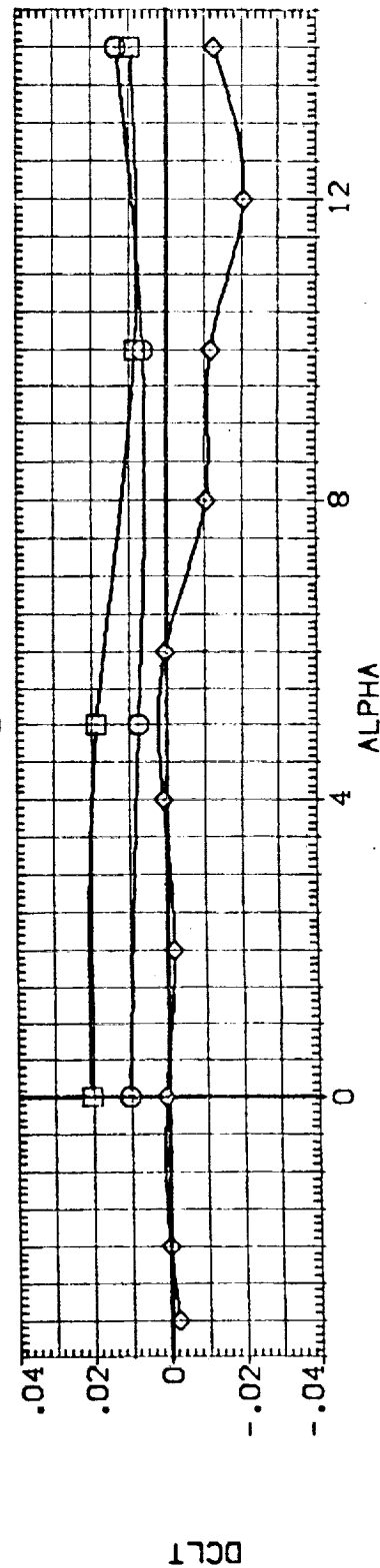
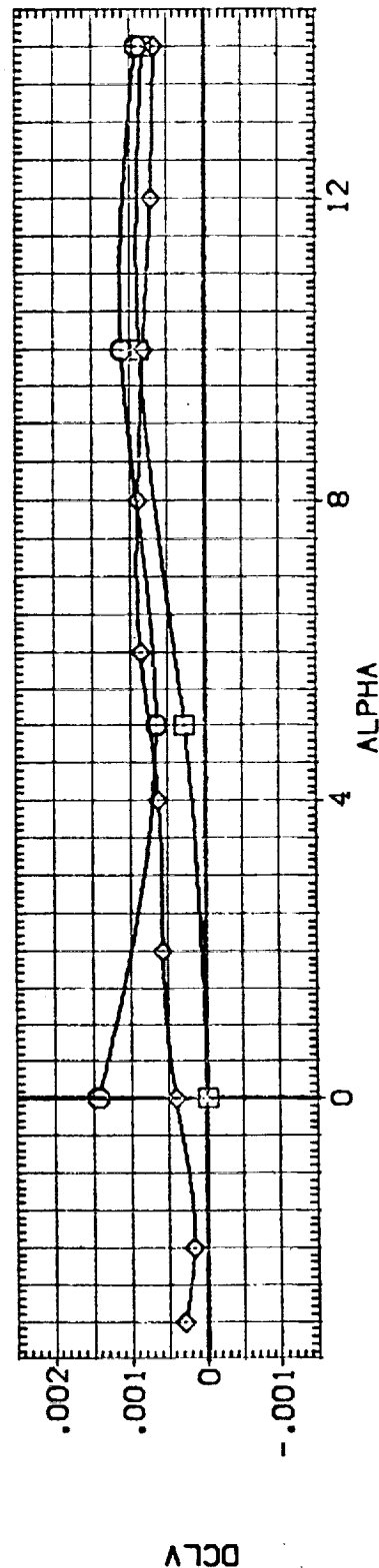
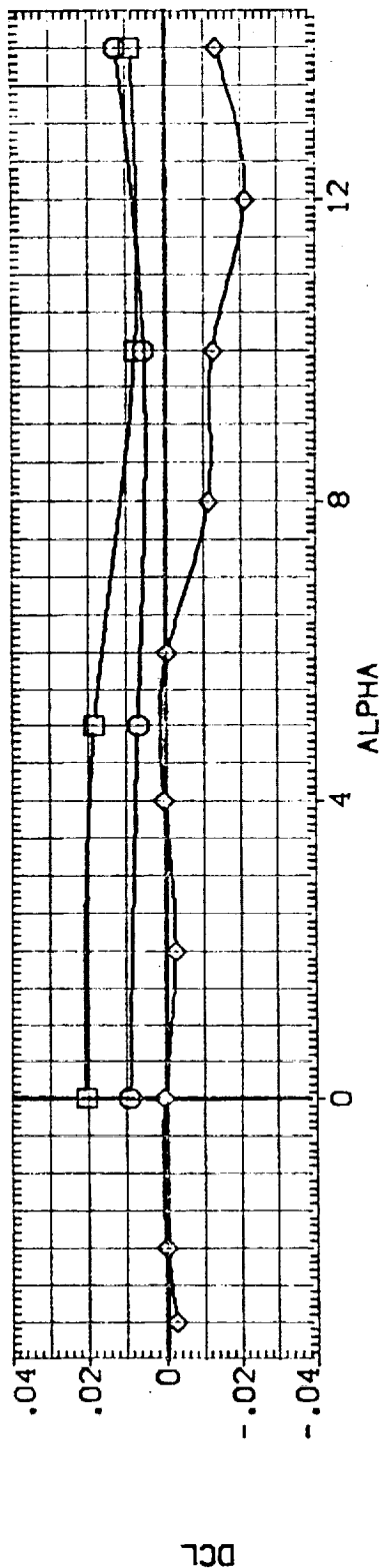


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 (UER005) DATA NOT AVAILABLE  
 (UER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF 6.03 50.FT.  
 LREF 6.03 50.FT.  
 BREF 1.11 10 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -3.50 IN.  
 SCALE .0150

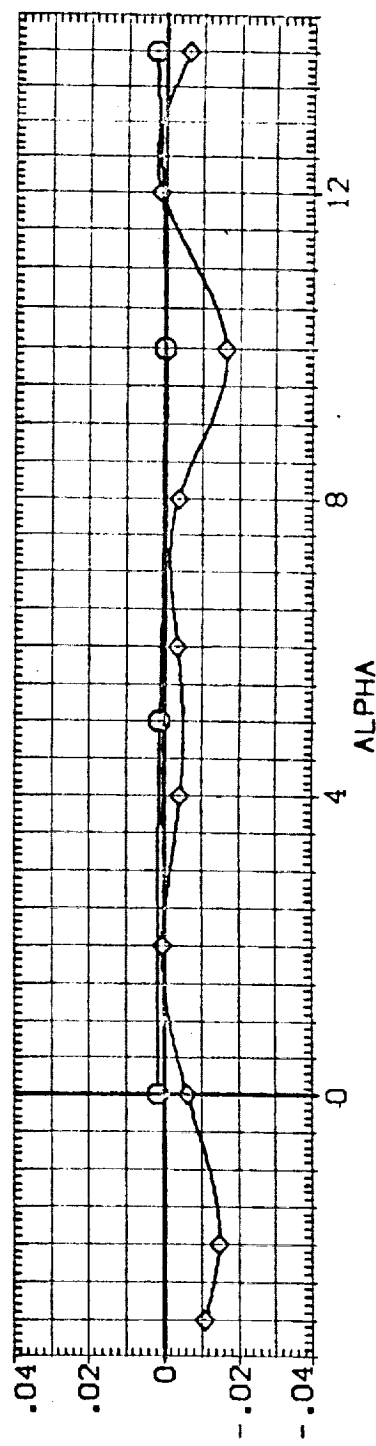
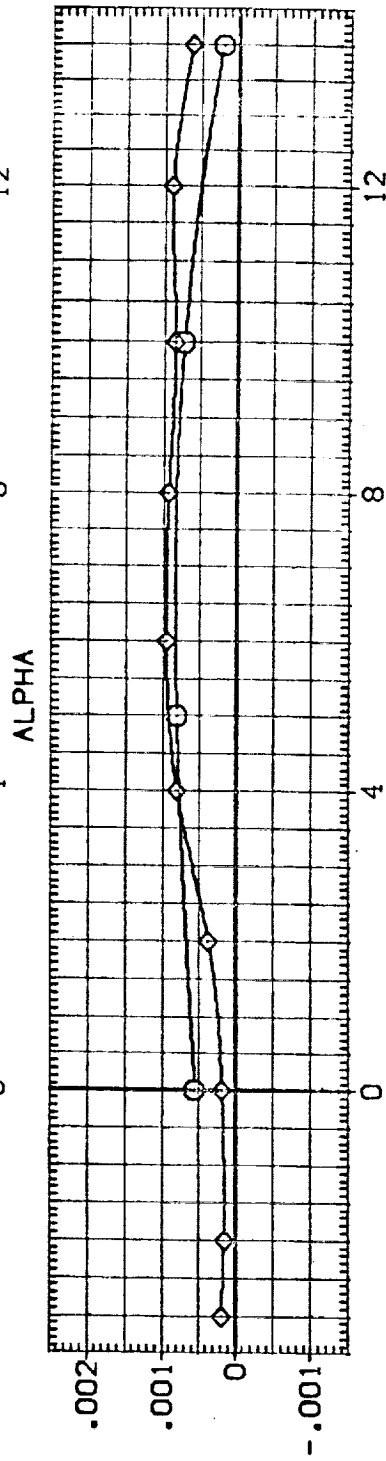
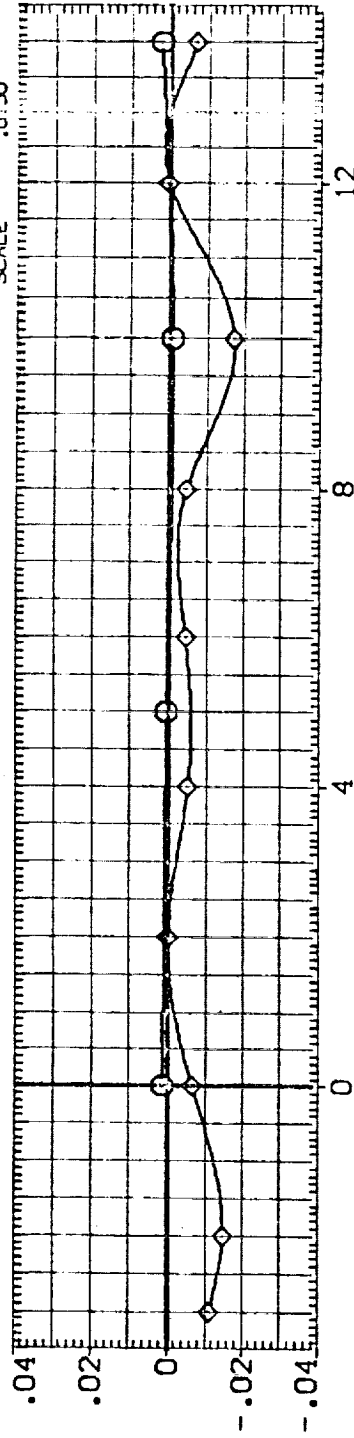


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 66-709 BASS DATA-(RS V8)+STRUT  
 (UER009) DATA NOT AVAILABLE  
 (UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .5053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE 0.50

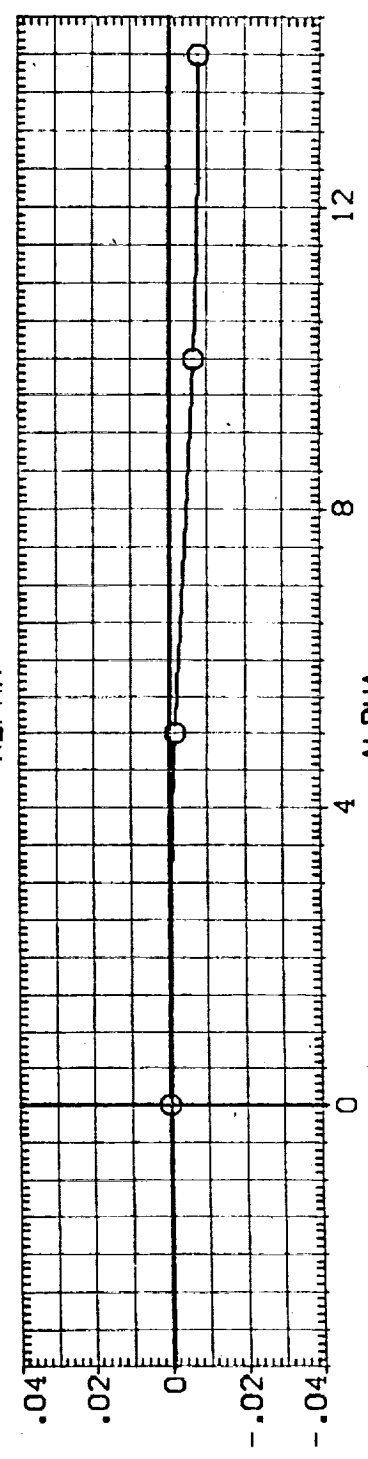
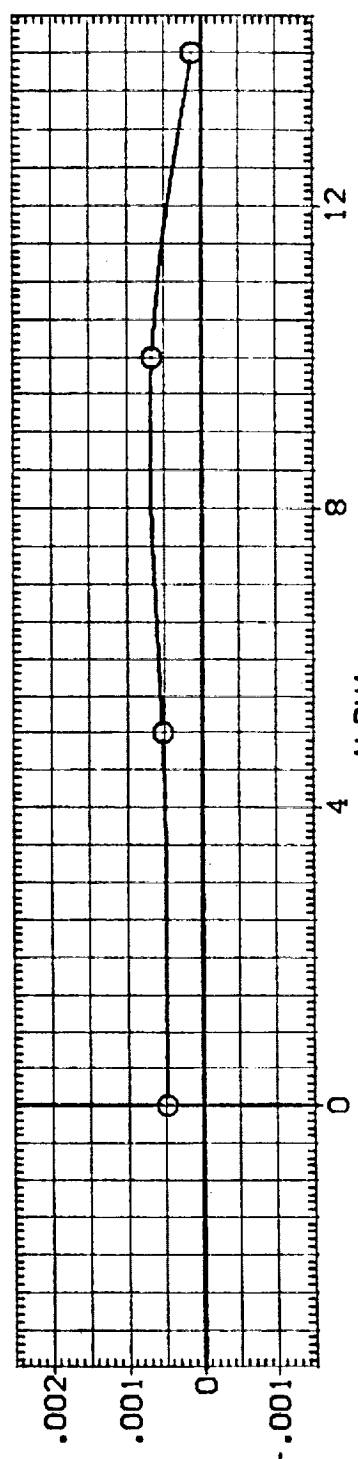
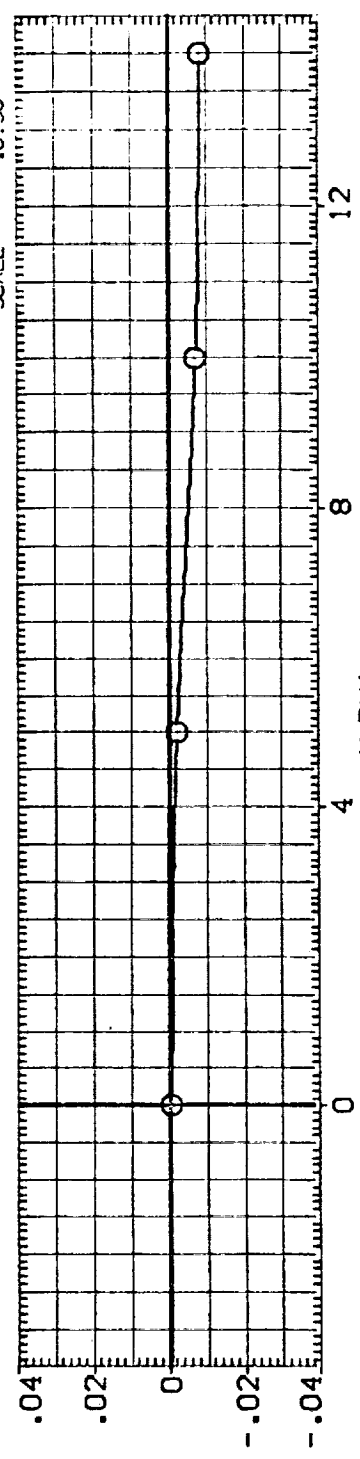


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

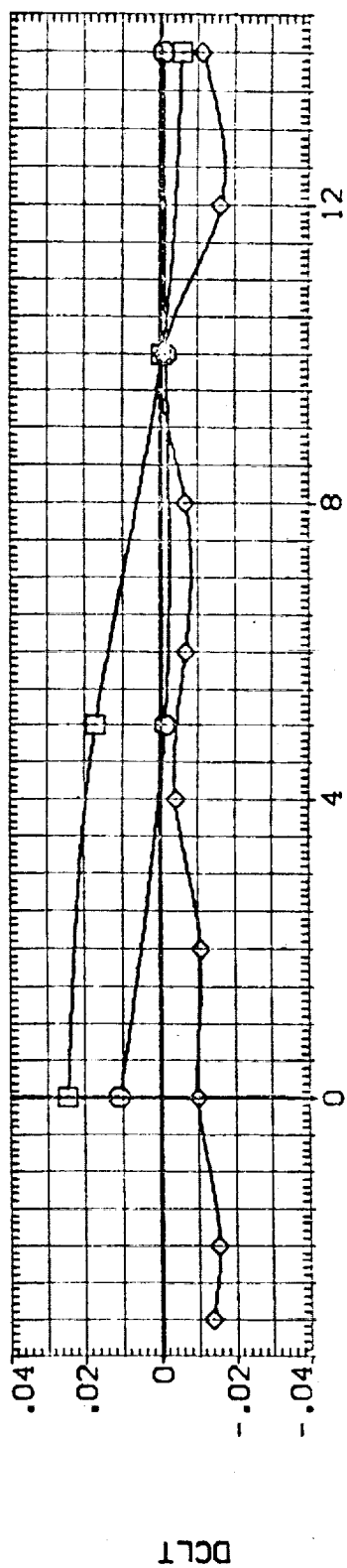
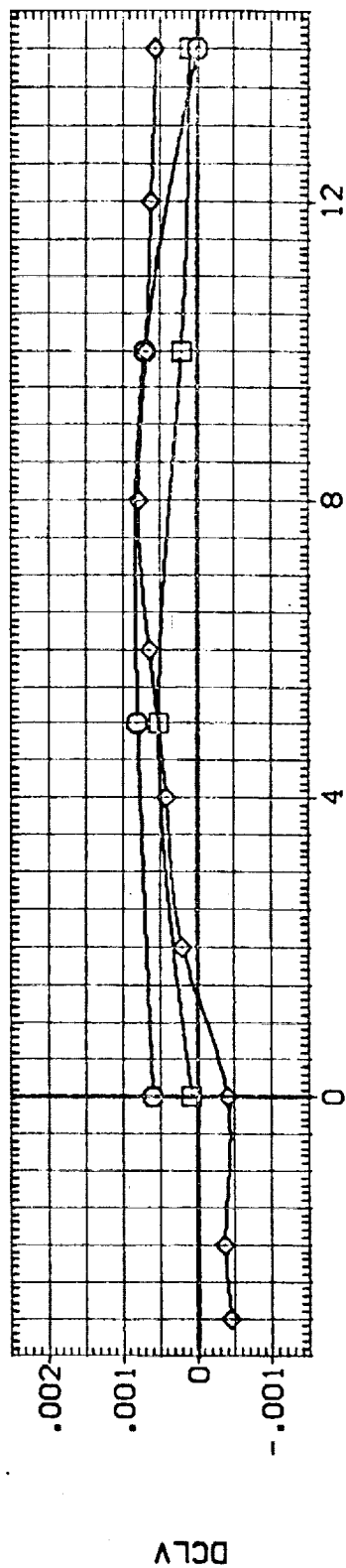
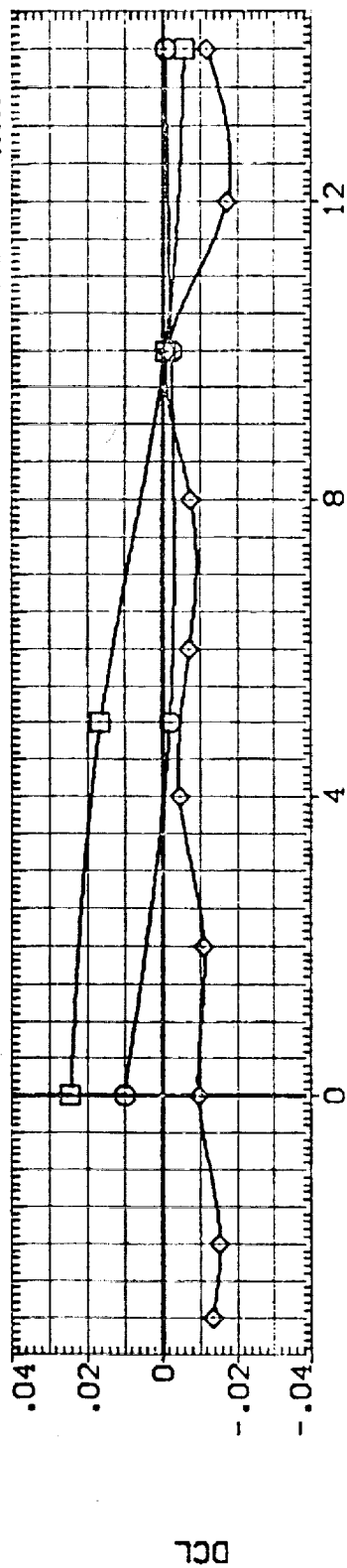
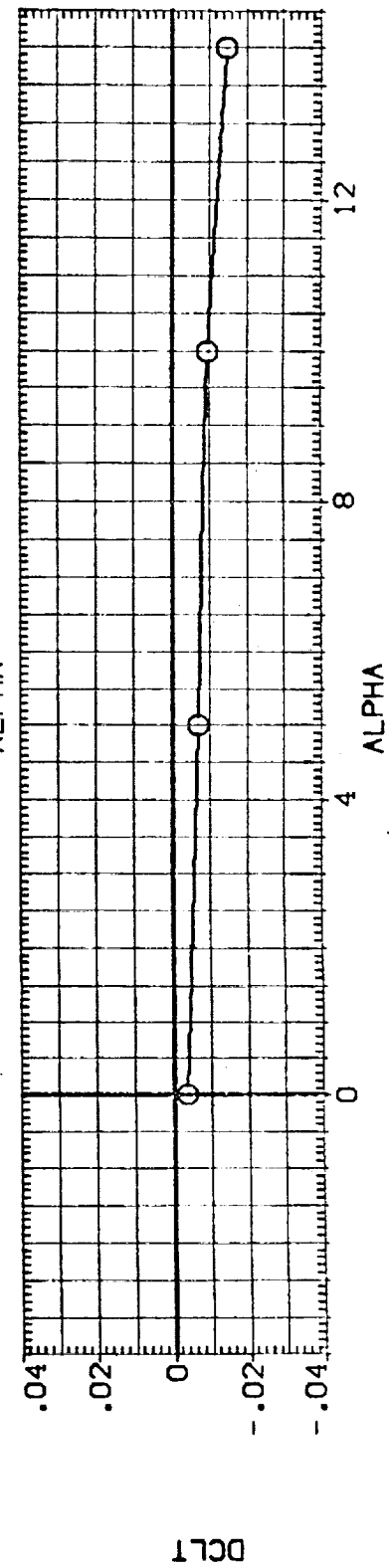


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(CD)MACH = .80

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012)  ARC 66-709 0A59 0A11A-(R5 V8)+STRUT  
 (UER008)  ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT  
 (UER013)  ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

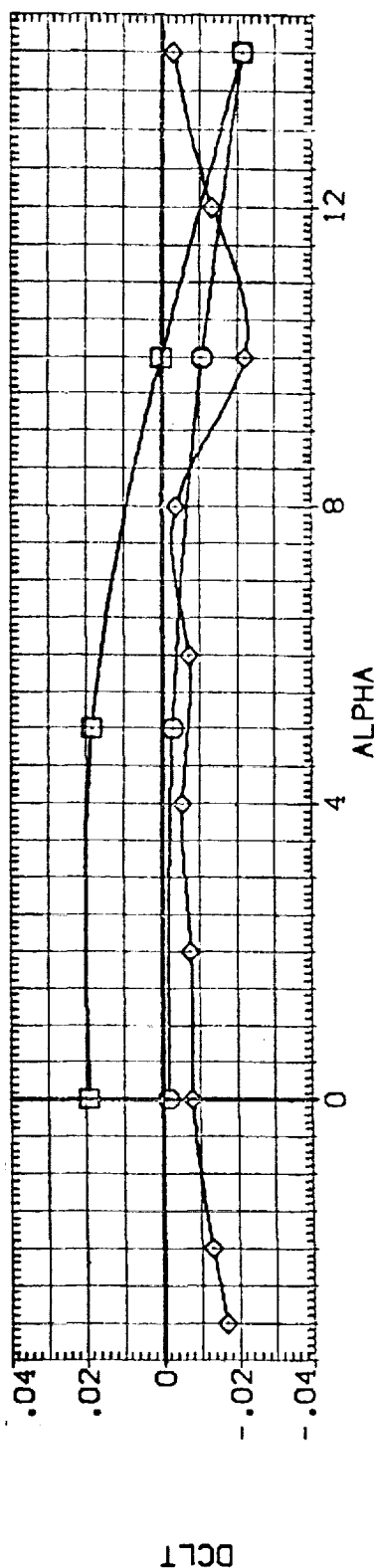
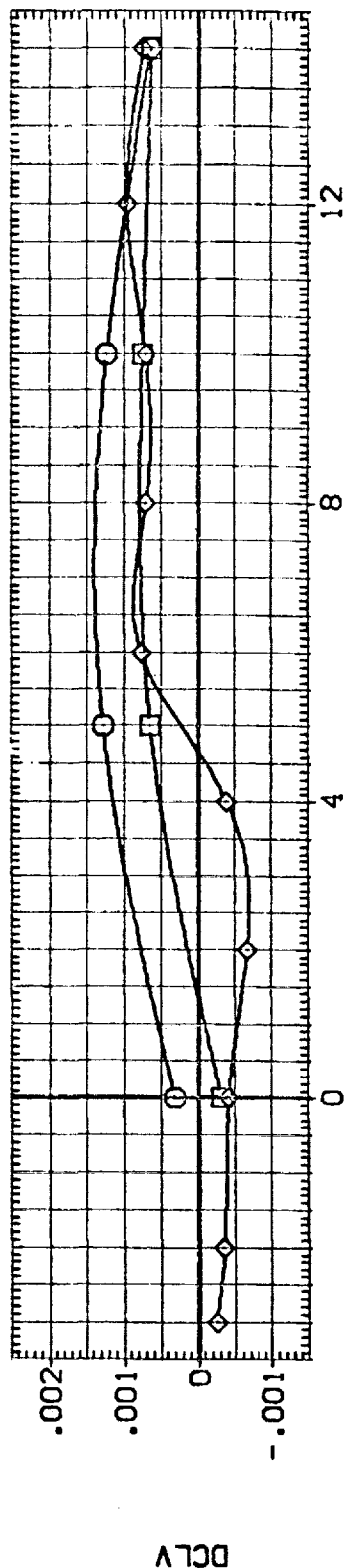
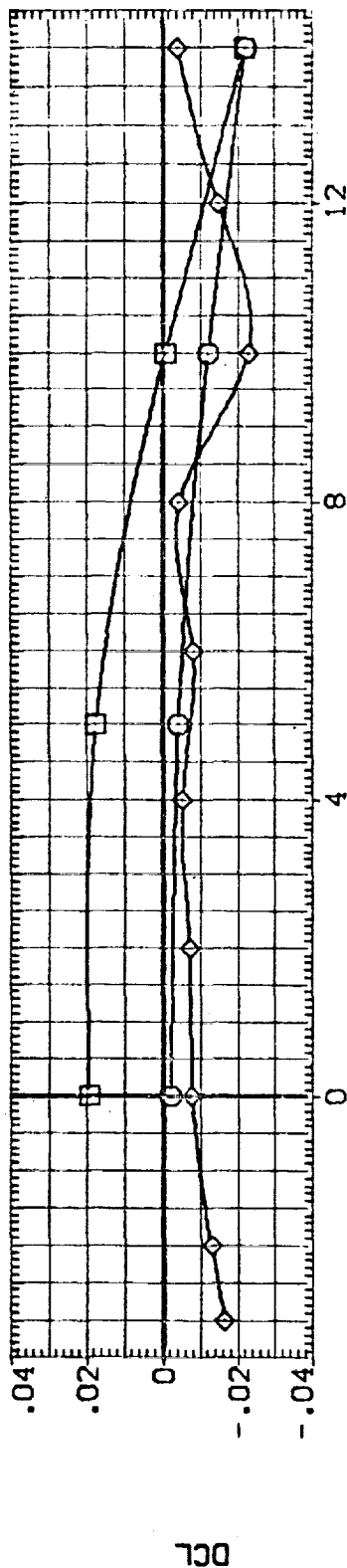


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

(UERO12)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT
(UERO09)	DATA NOT AVAILABLE
(UERO13)	DATA NOT AVAILABLE

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

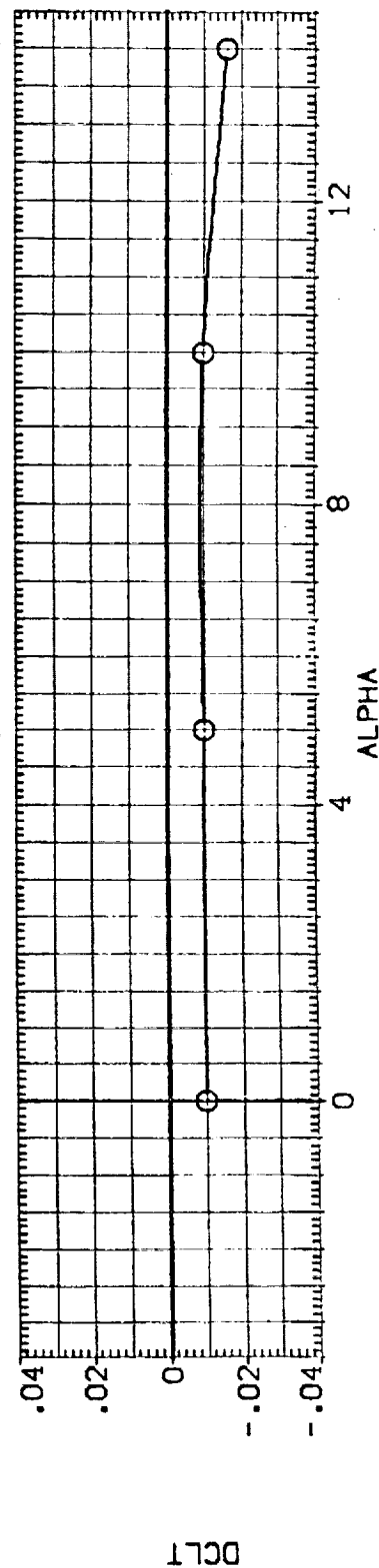
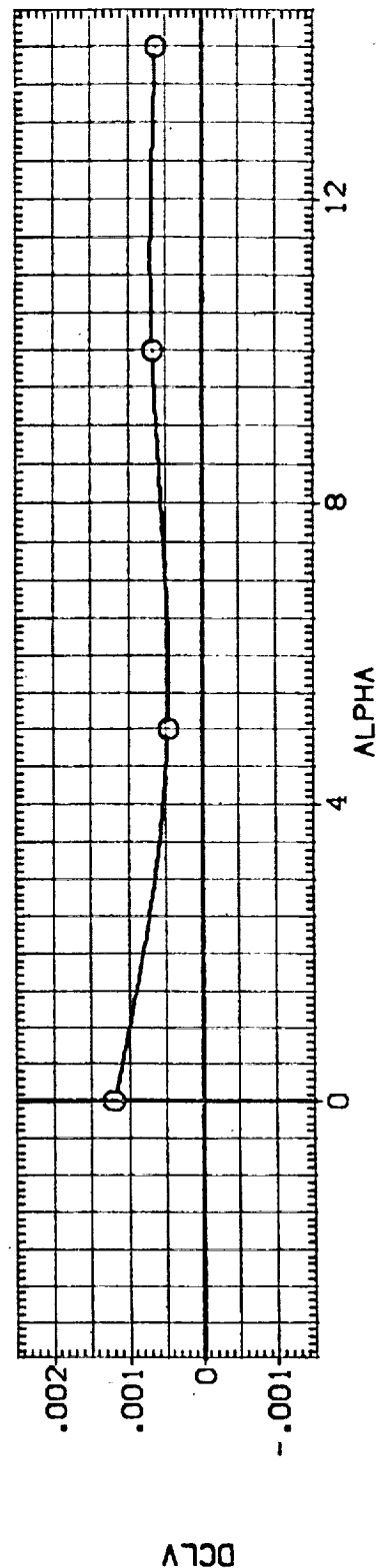
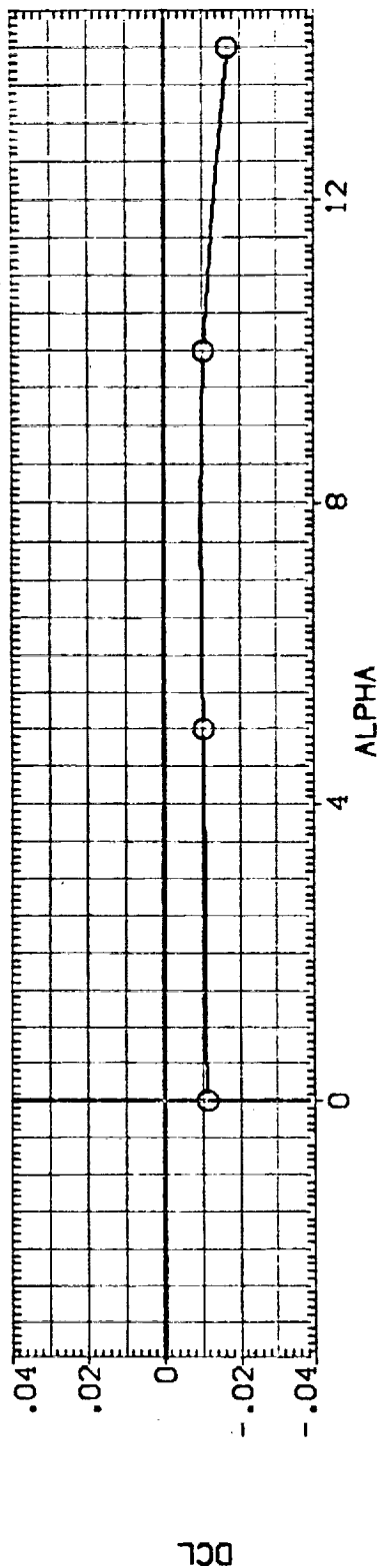


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

[CG]MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOELAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

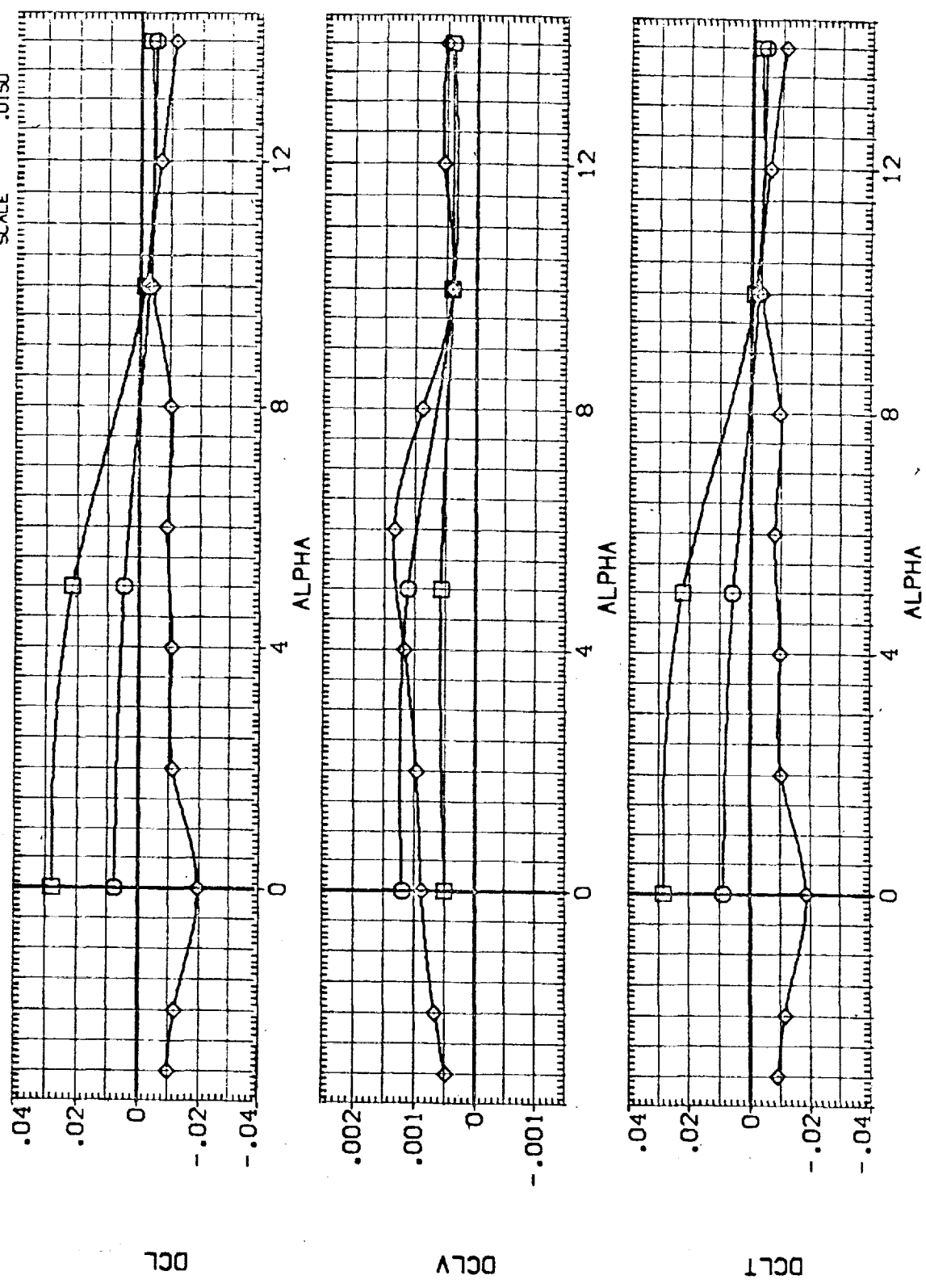


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(H)MACH = 1.20



REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
XMRP	1.1710 FT.
YMRP	12.6255 IN.
ZMRP	.0000 IN.
SCALE	-.3750 IN.
	.0150

```

((LE012)
((LE009)
((LE013)
ARC 66-709 DASS DAI1A-(R5 V8)+STRUT
ARC 66-709 DASS DAI1A-(N24 R5 V3)+STRUT
ARC 66-709 DASS DAI1A-(R5 V8)+STRUT

```

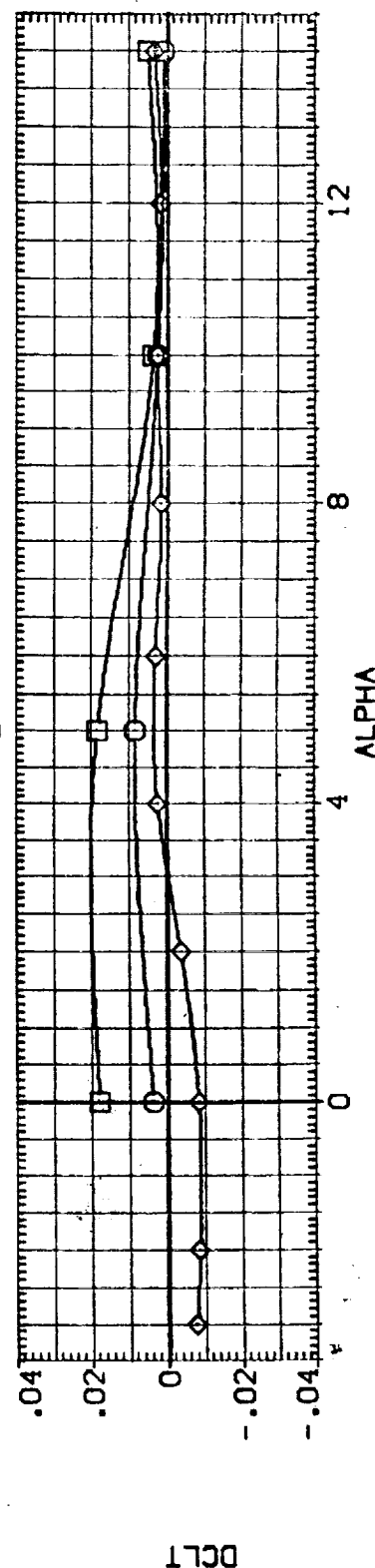
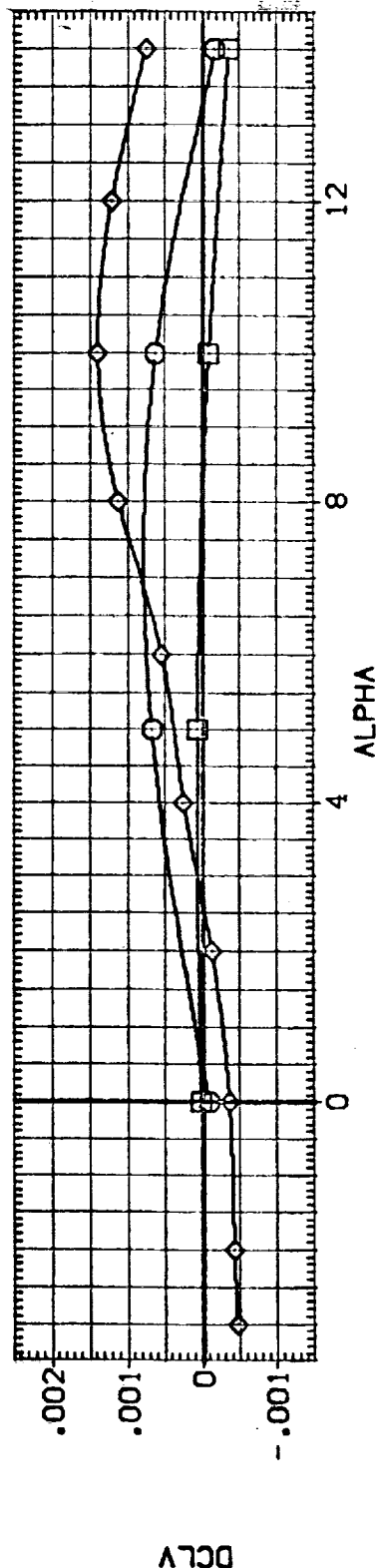
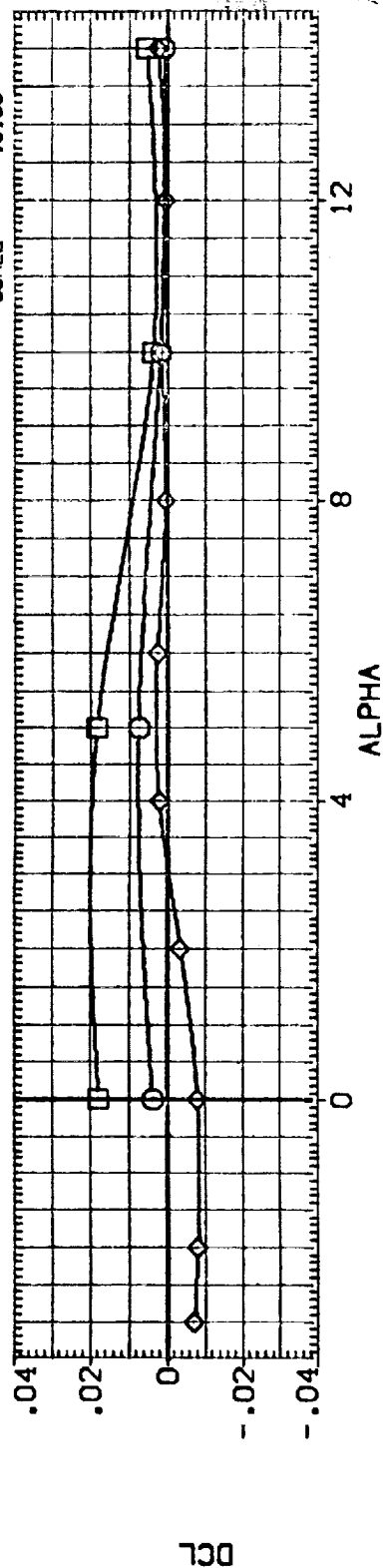


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CIMACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SO.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

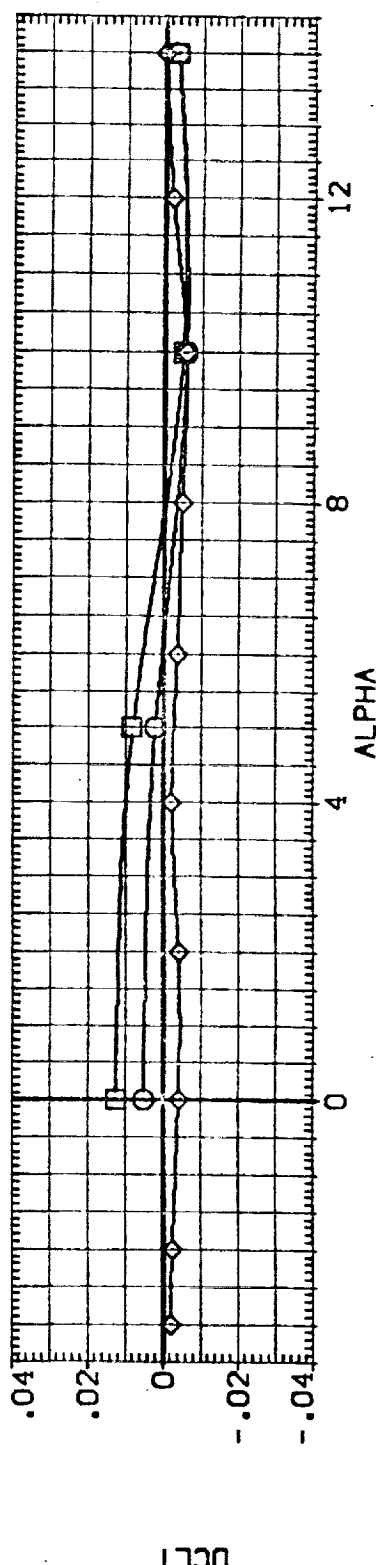
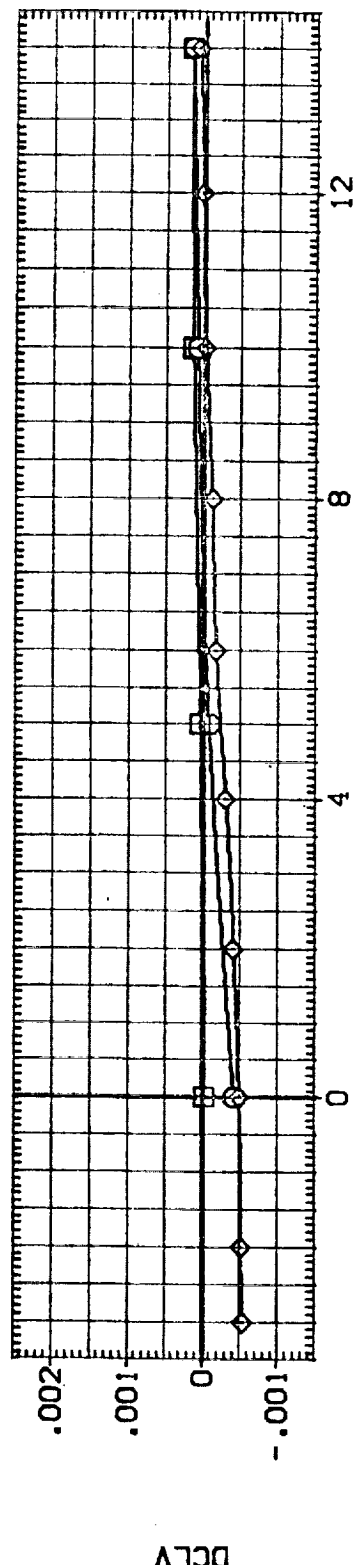
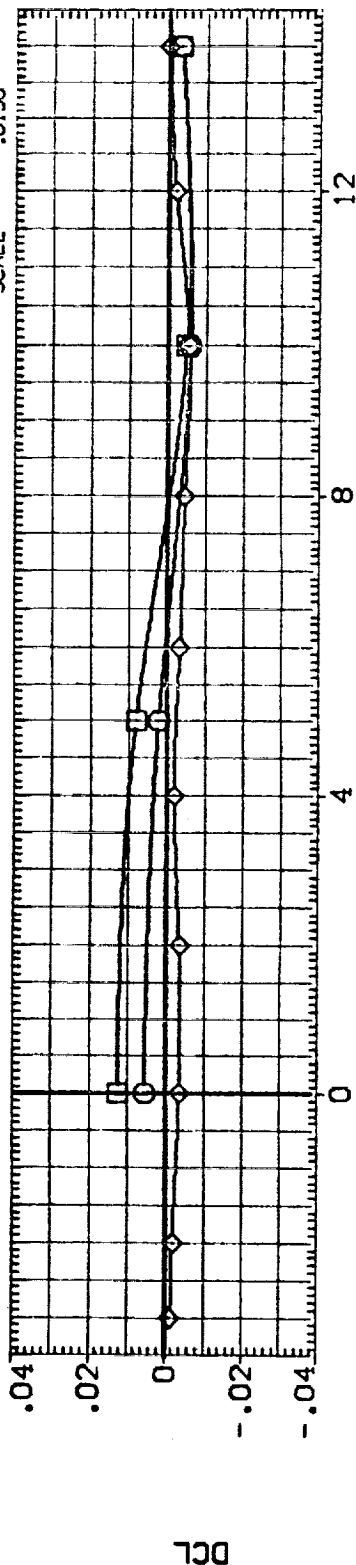


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UERO09)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UERO13)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

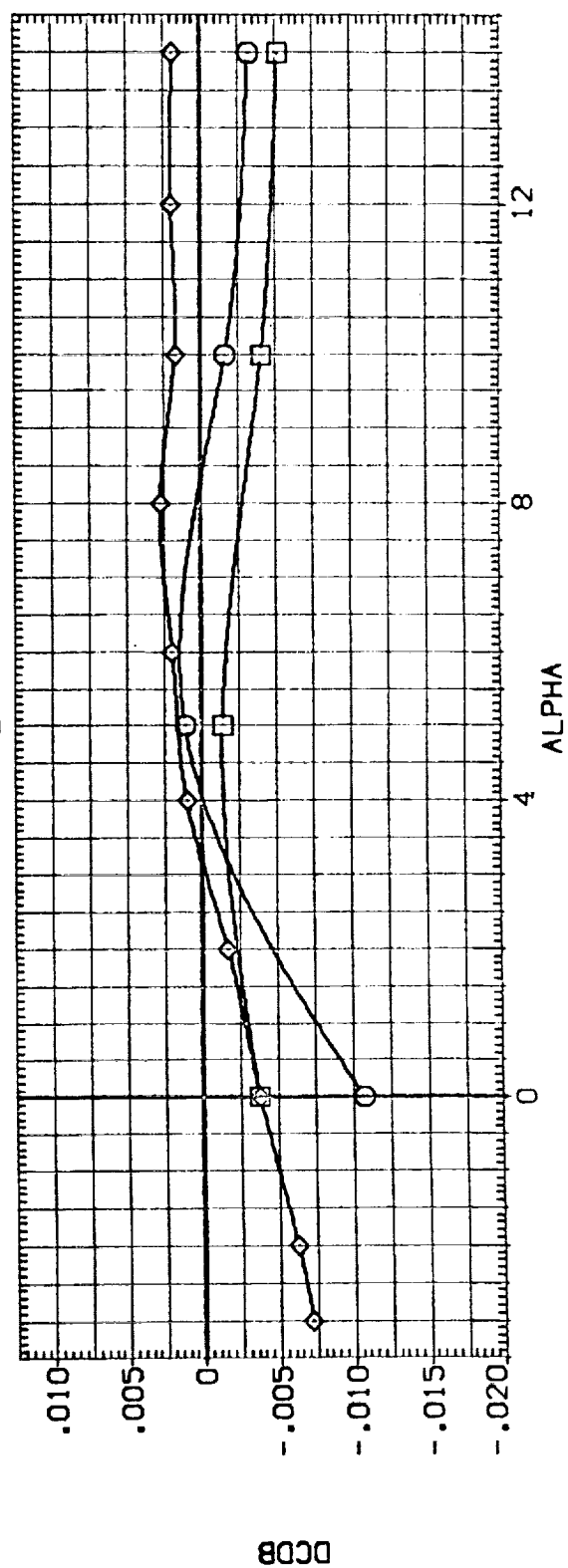
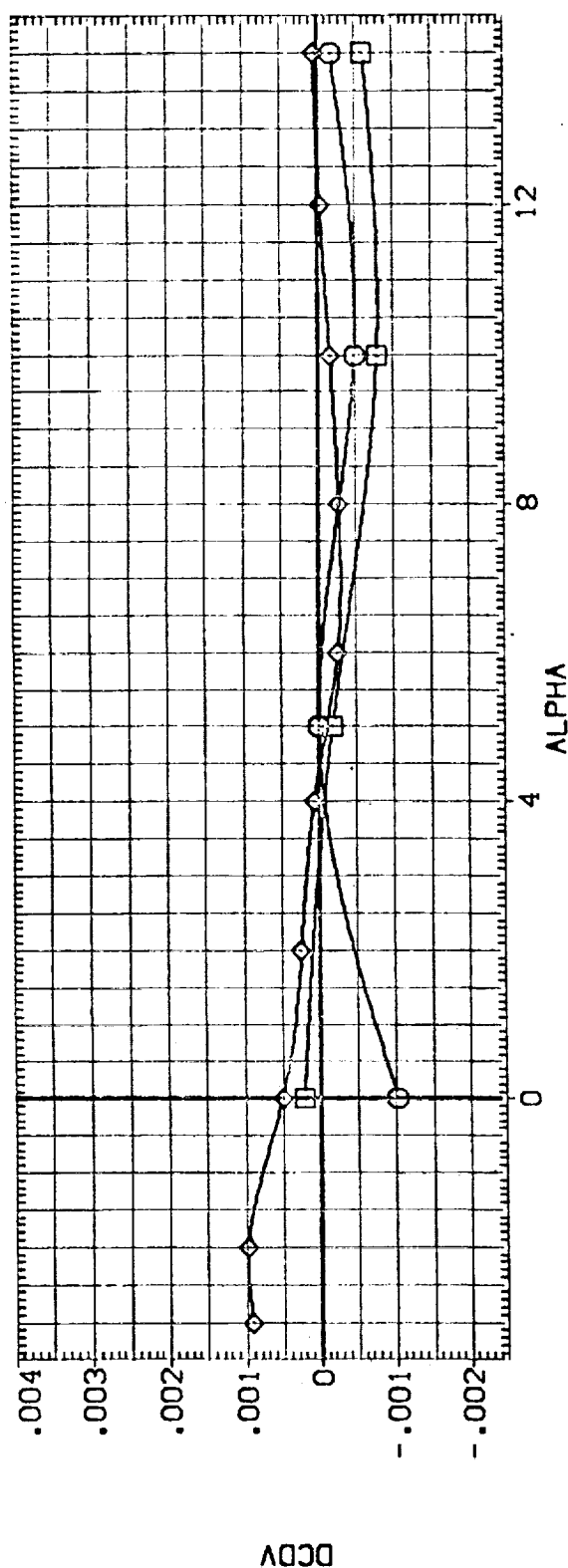


FIG. 7 PITCH TARES FOR DEFLECTED ELECONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 65-709 0A59 0A11A-(RS V8)\*STRUT  
 (UER009) DATA NOT AVAILABLE  
 (UER013) ARC 65-709 0A59 0A11A-(RS V8)\*STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

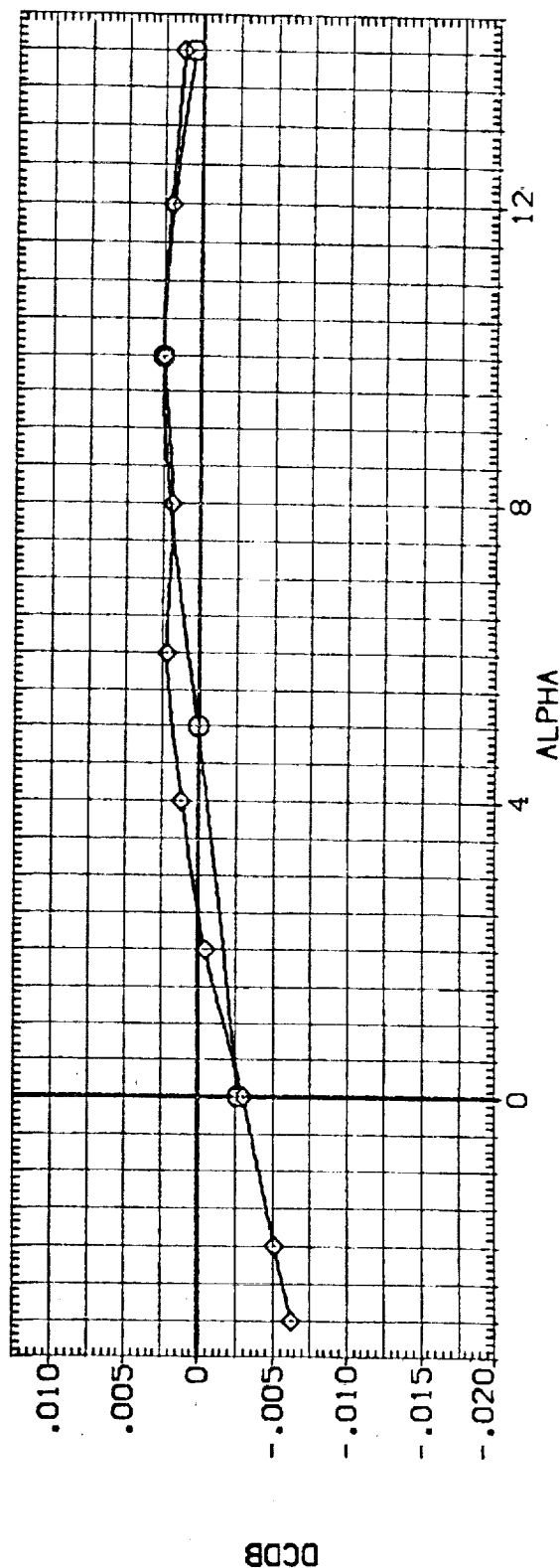
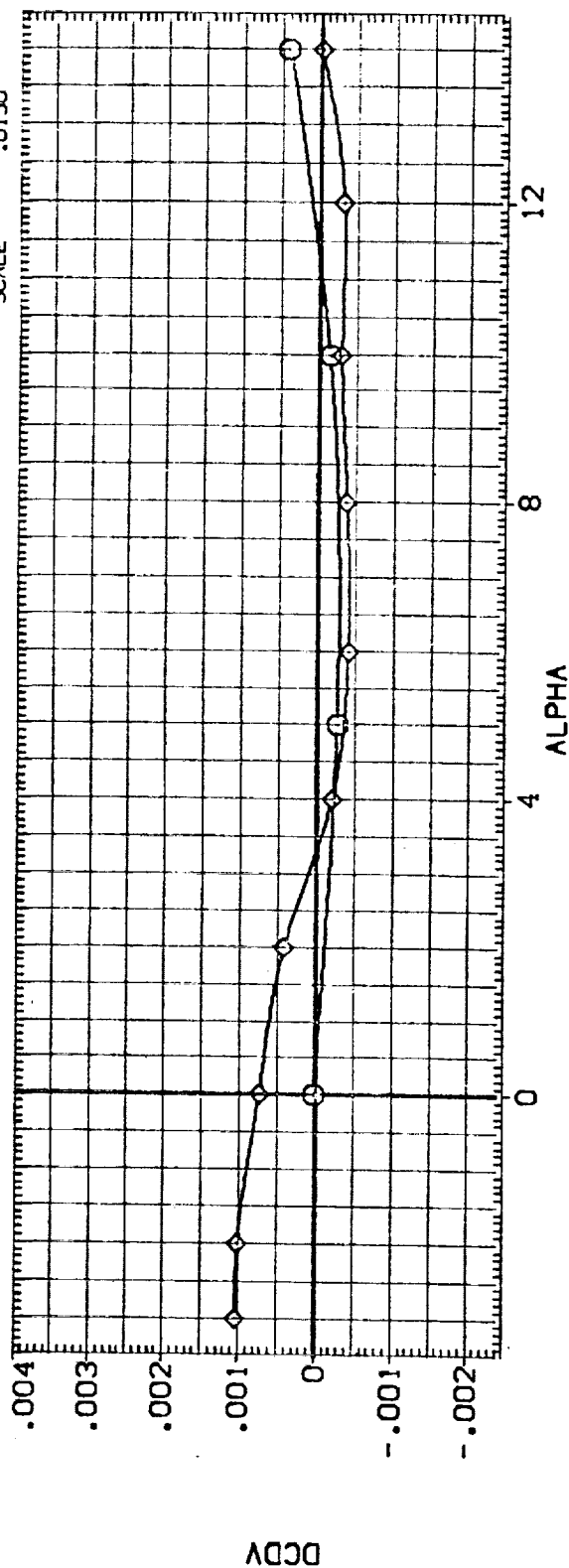


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL: (UER012)  
 (UER009)  
 (UER013)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 DASS DALLA-(RS V81)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700  
 .000  
 .000  
 15.000  
 -11.700

REFERENCE INFORMATION:  
 SREF: .6053 SQ.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6235 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

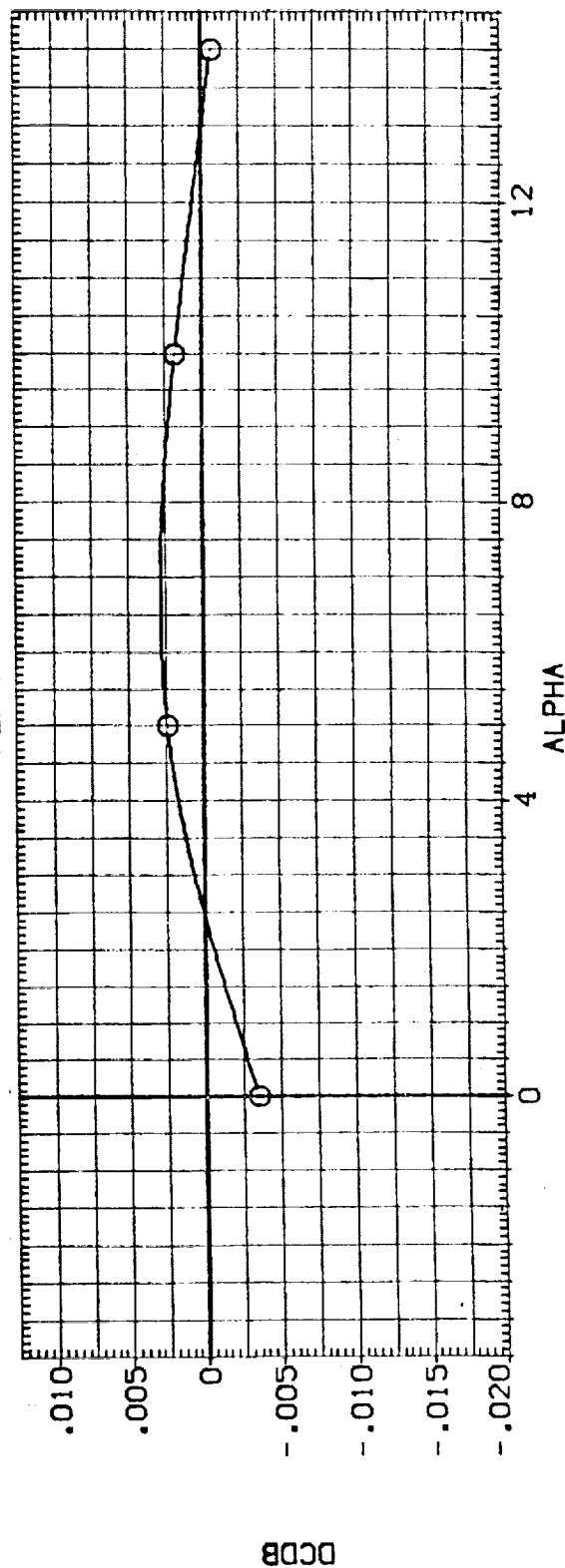
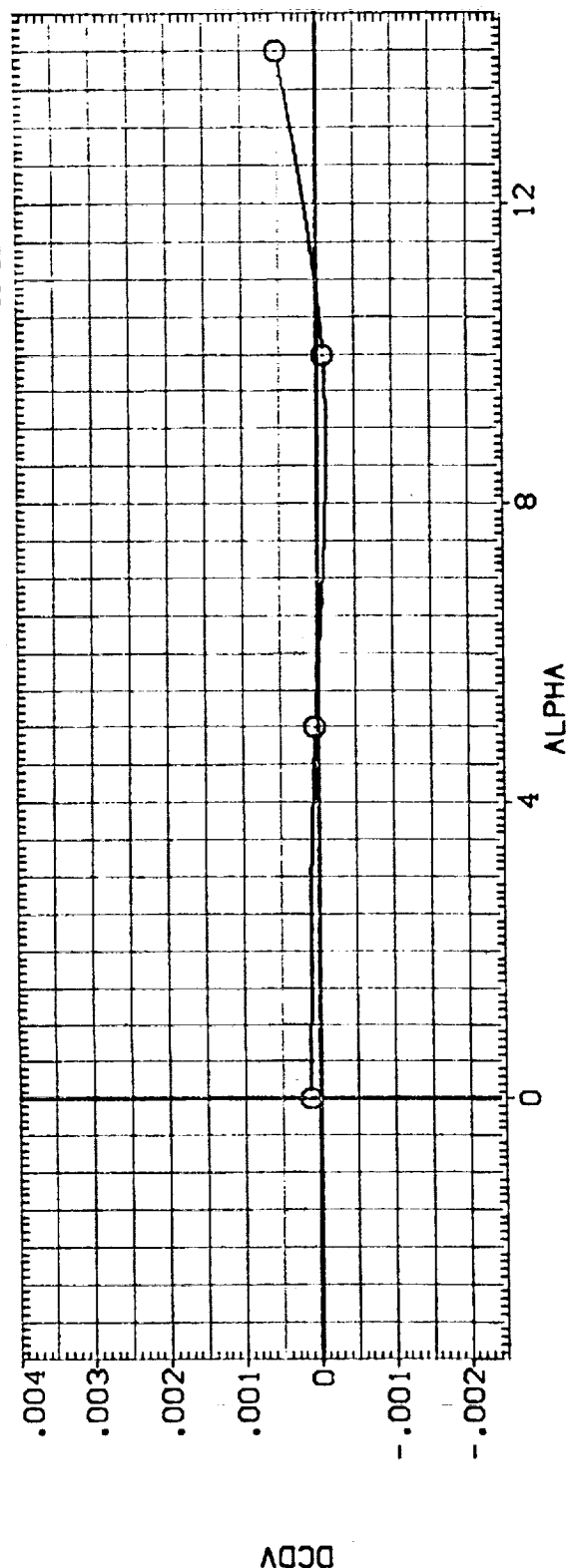


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UERO09)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UERO13)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

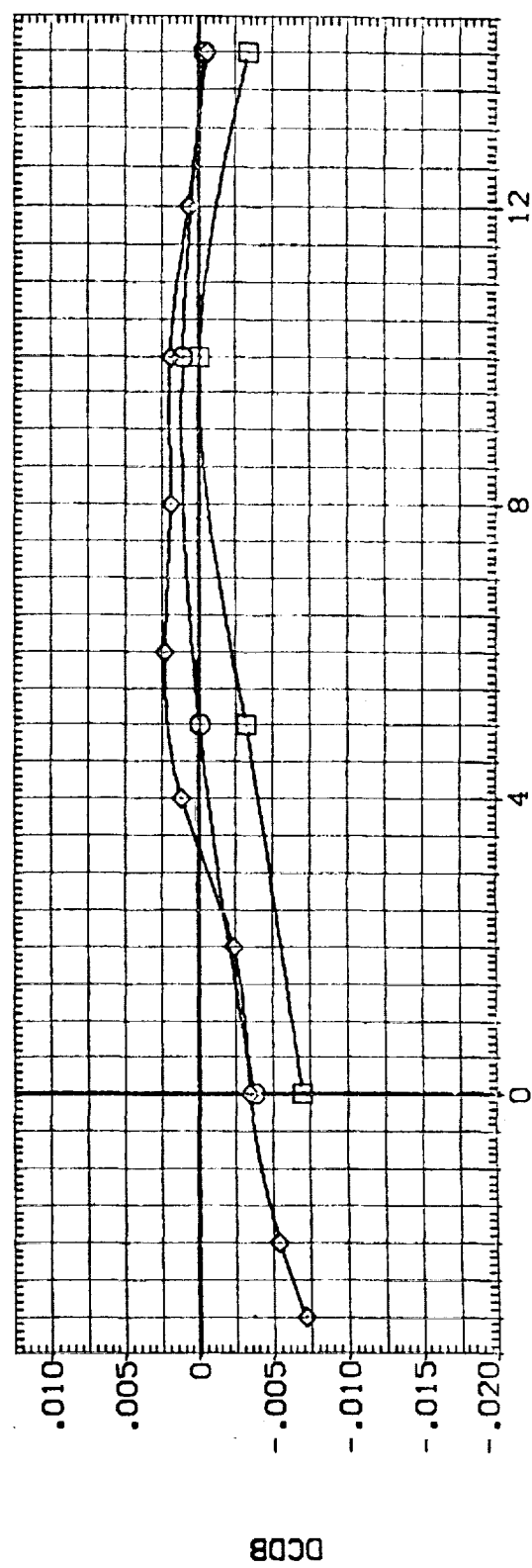
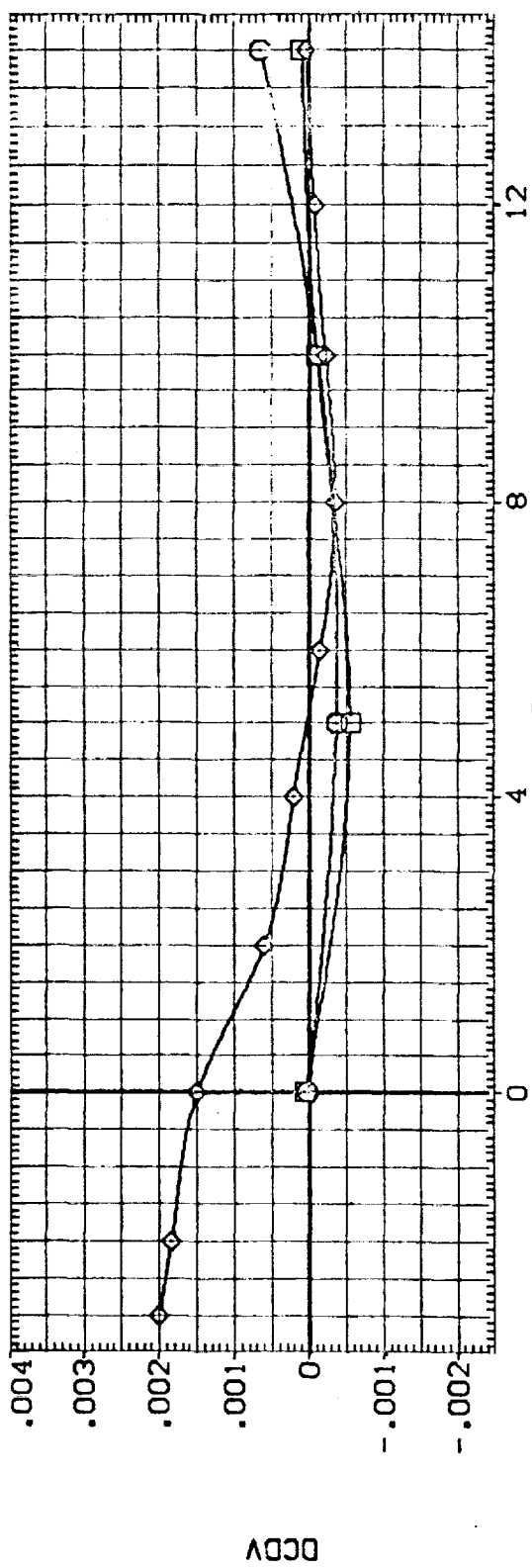


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(UER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

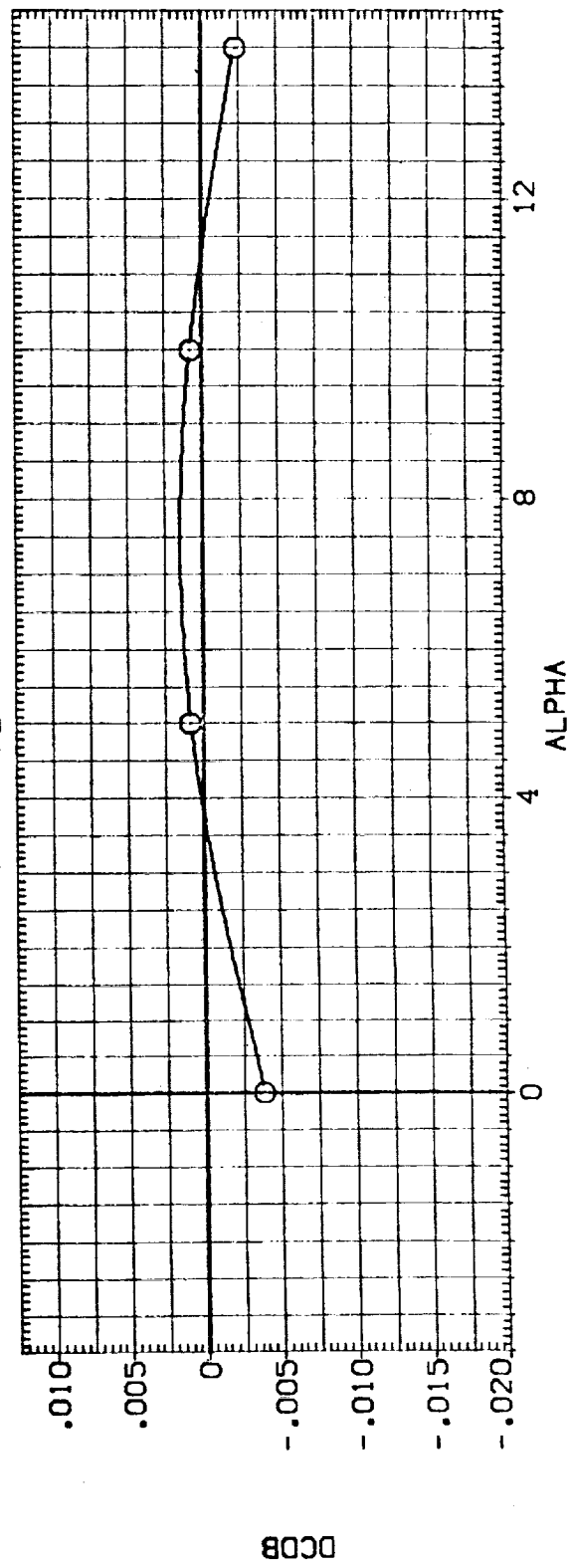
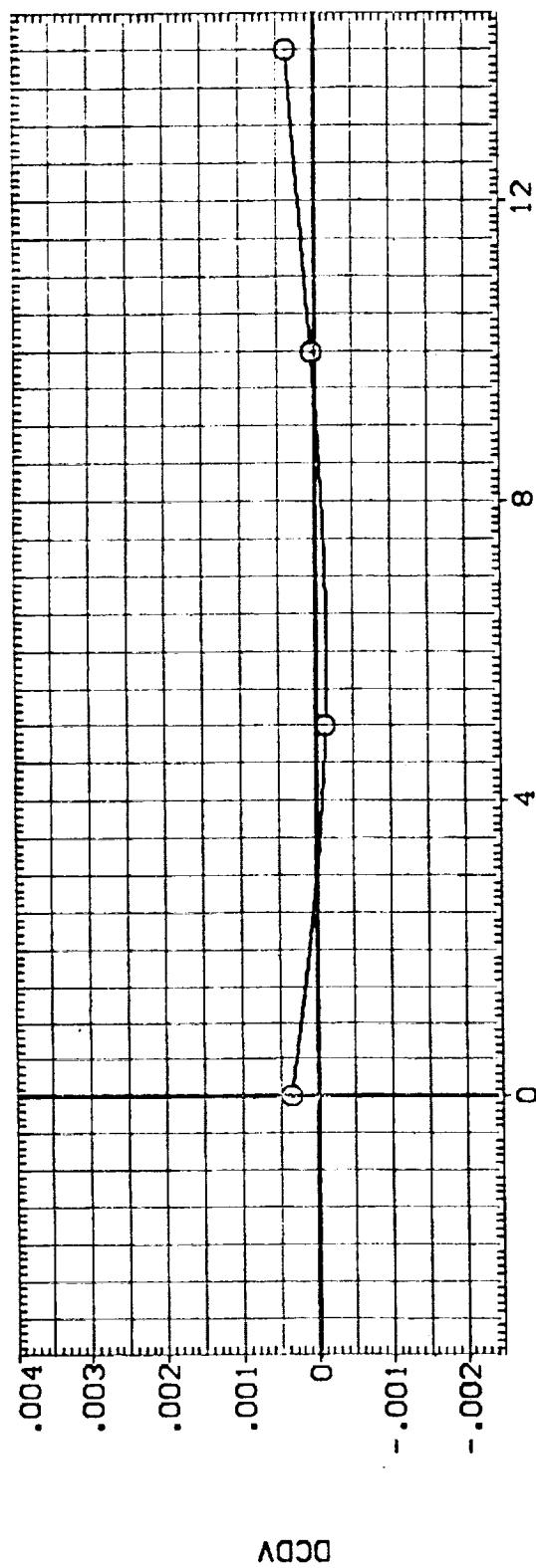


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

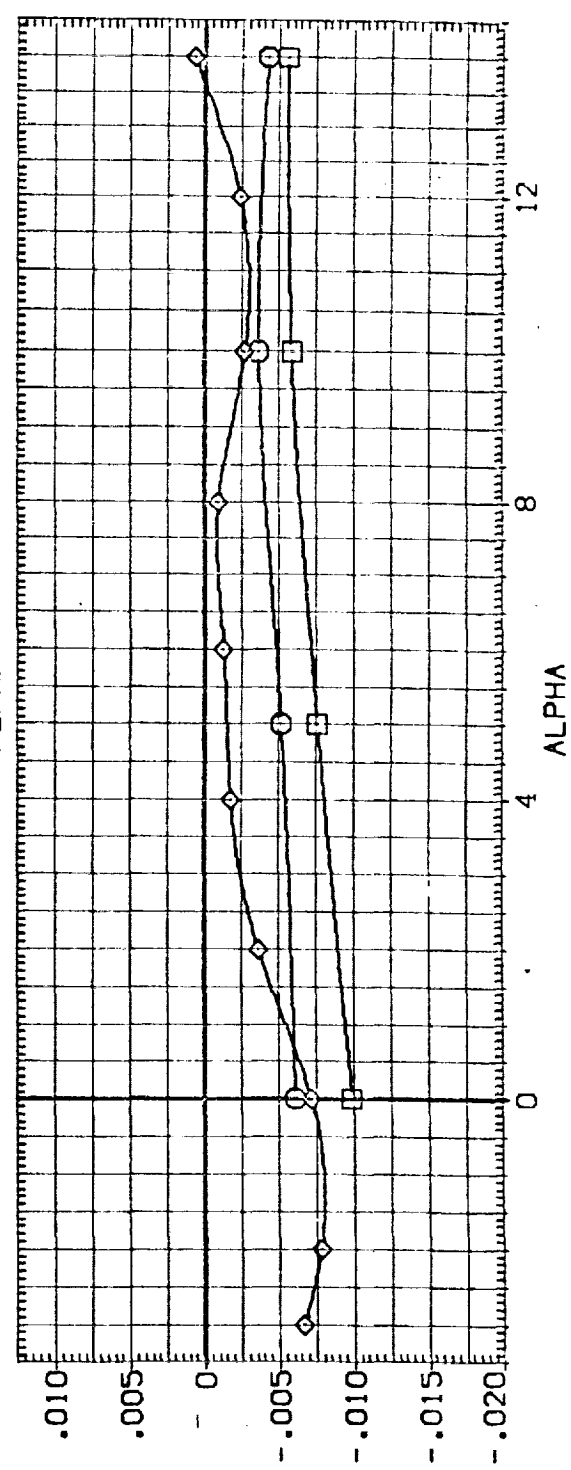
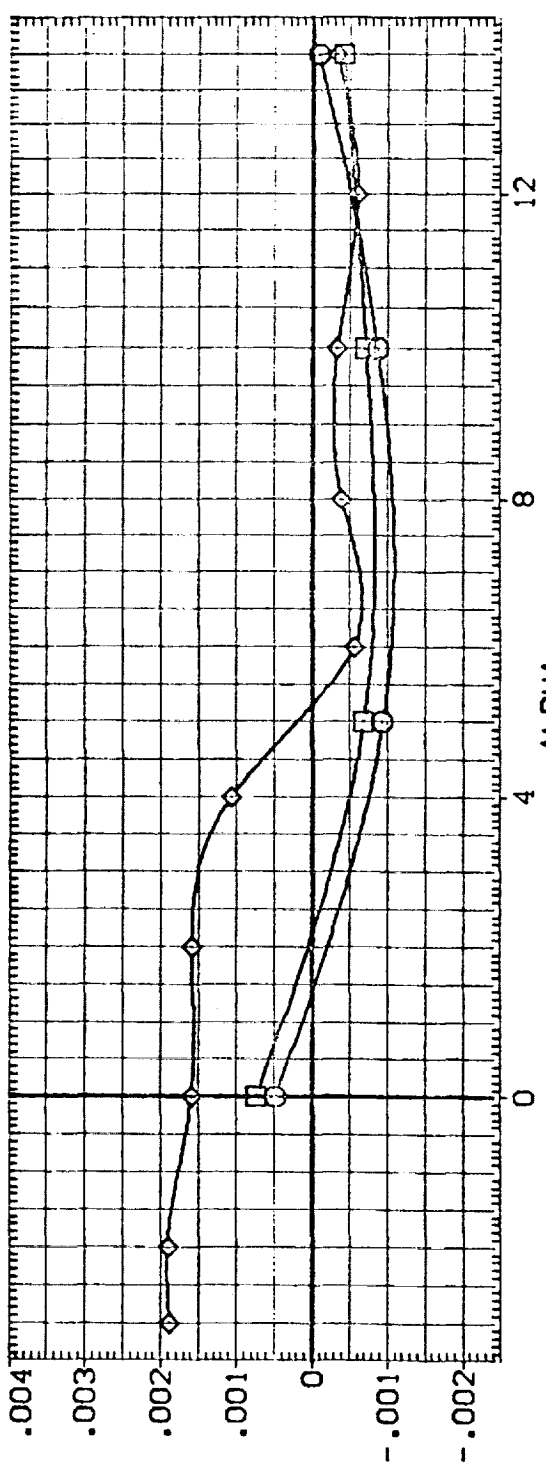


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90



DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(UER012)    ARC 66-709 DA59 0A11A-(RS V8)+STRUT

(UER008)    DATA NOT AVAILABLE

(UER013)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP

.000    .000    -11.700

.000    .000    -11.700

.000    15.000    -11.700

REFERENCE INFORMATION

SREF    .6053    SQ.FT.

LREF    .5935    FT.

BREF    1.1710    FT.

XMRP    12.6255    IN.

YMRP    .0000    IN.

ZMRP    -.3750    IN.

SCALE    .0150

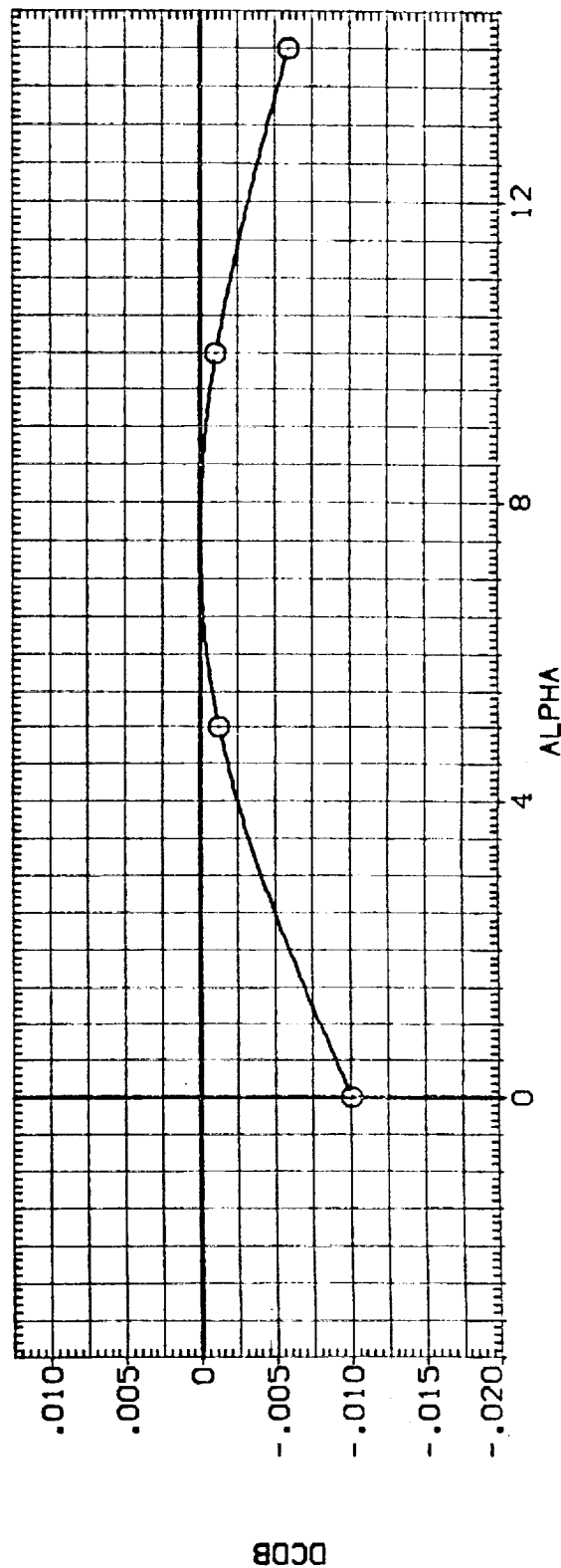
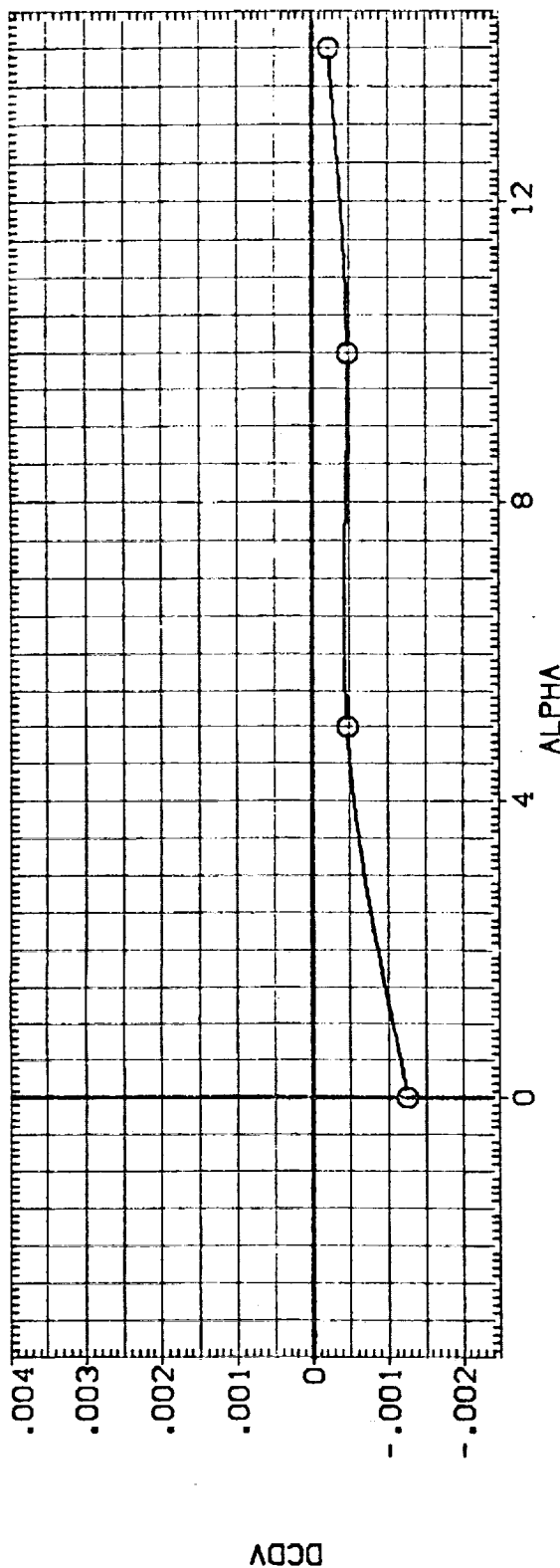


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 0AS9 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UERO09)	ARC 66-709 0AS9 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(UERO13)	ARC 66-709 0AS9 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

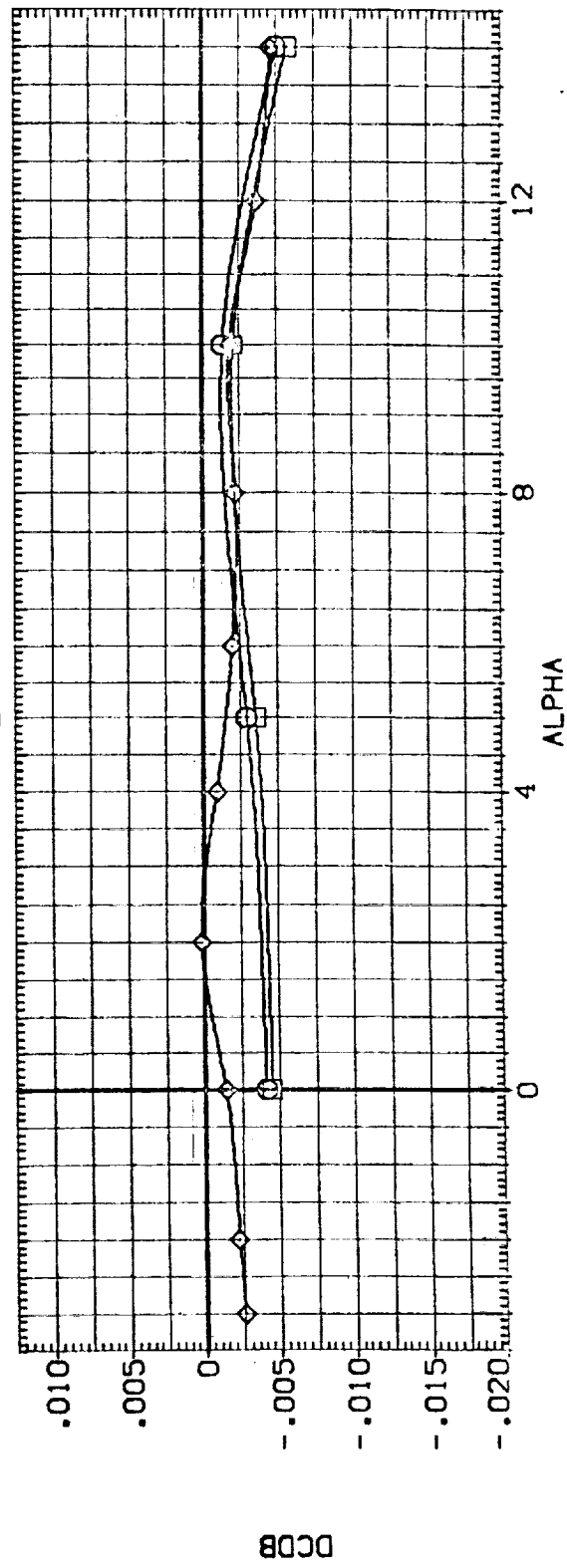
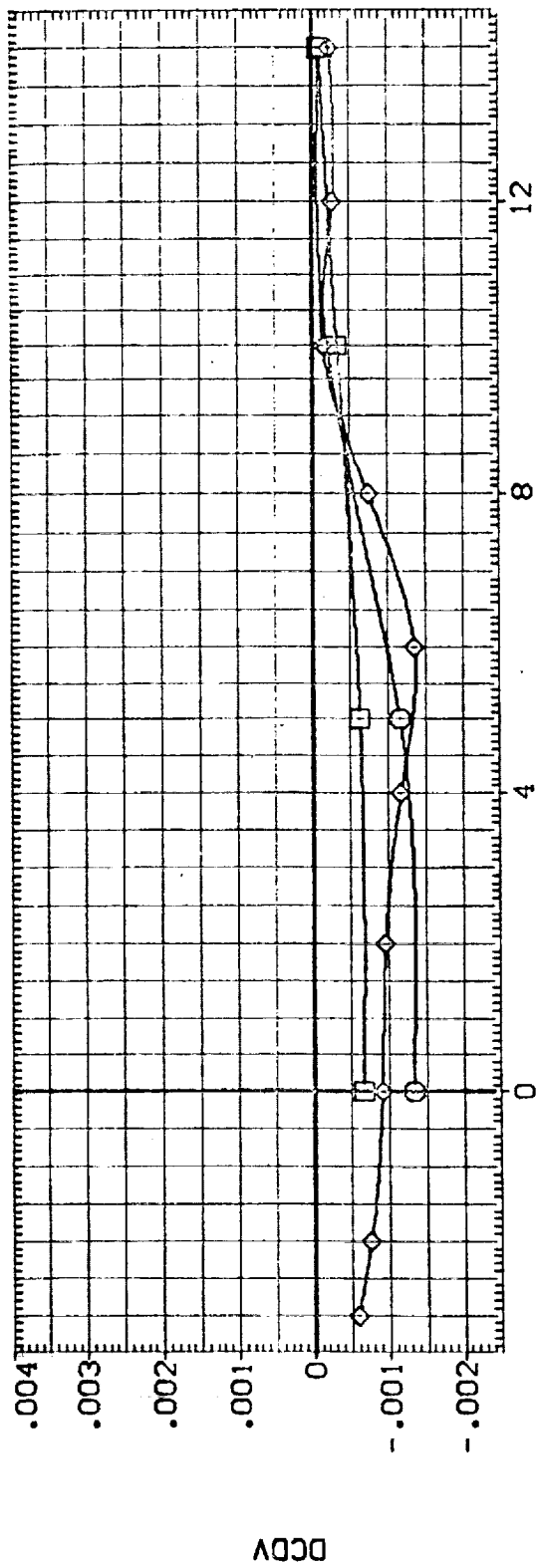


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5835 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

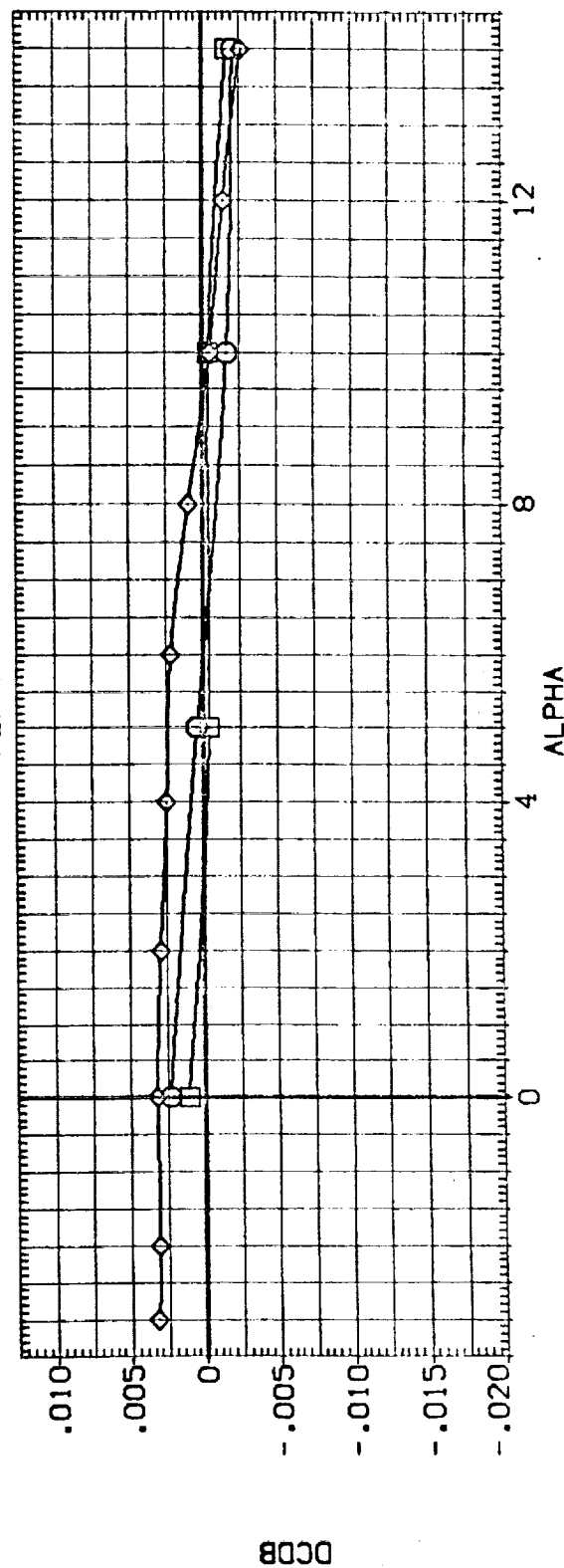
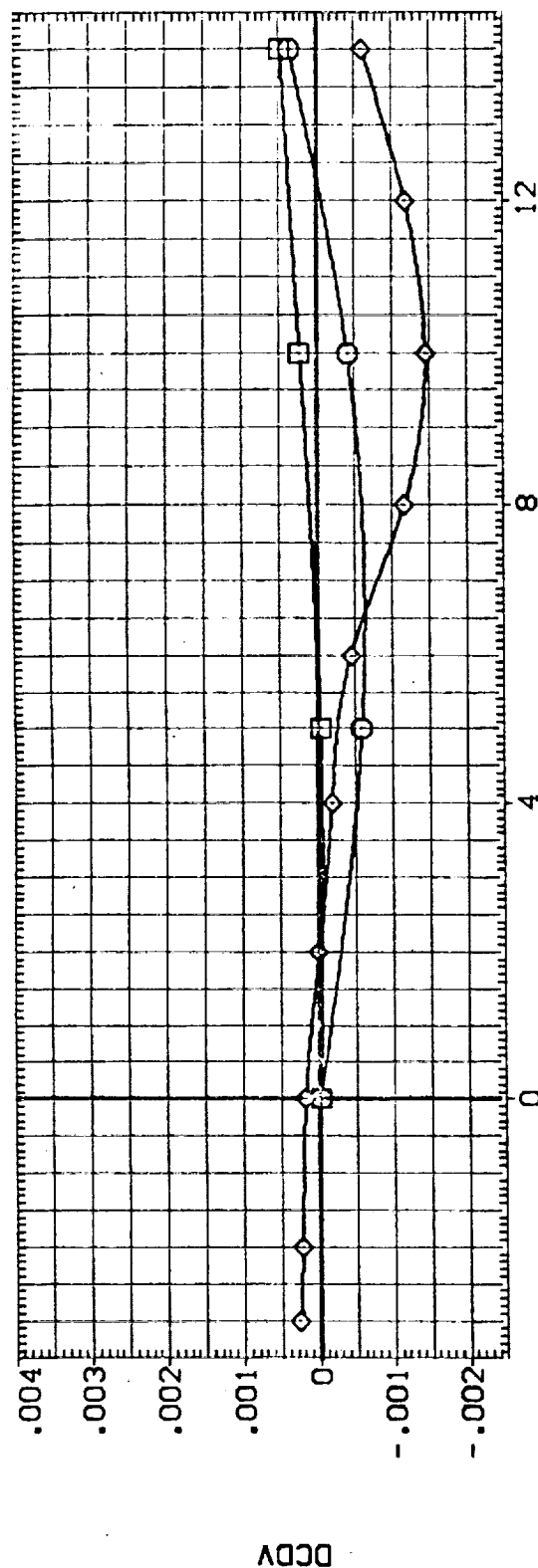


FIG. 7 PITCH TARES FOR DEFLECTED ELEVEN

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6285 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

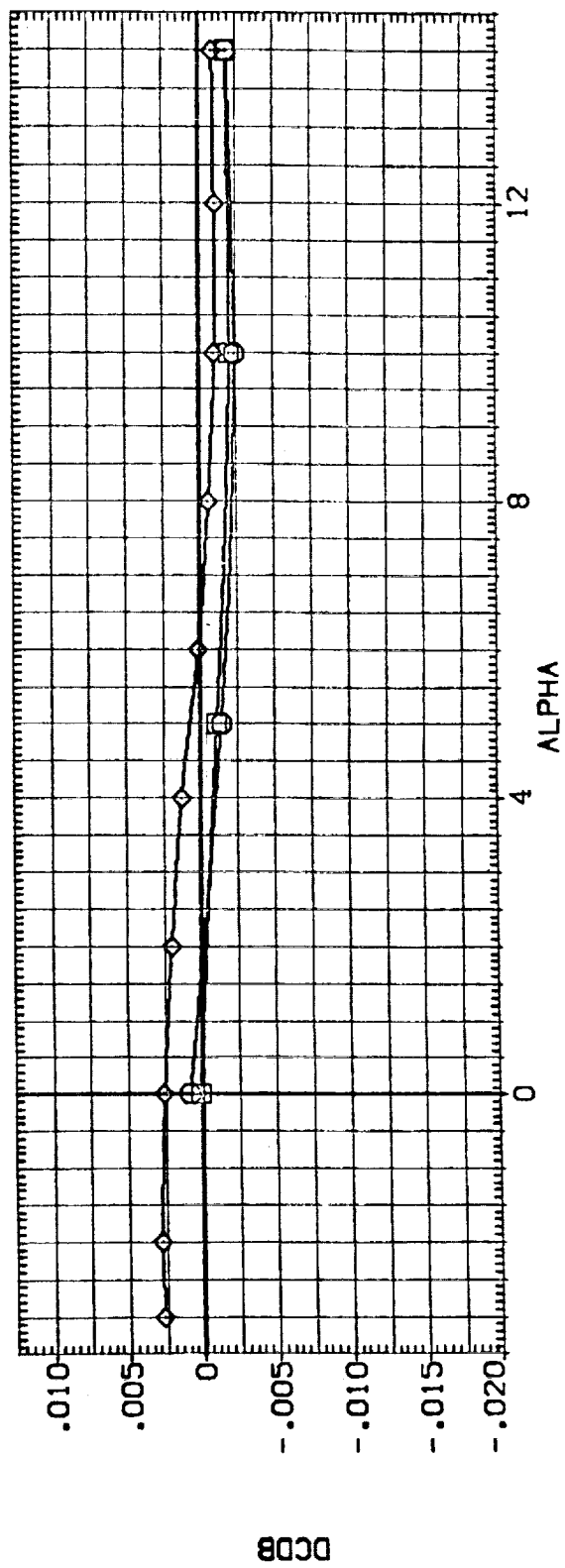
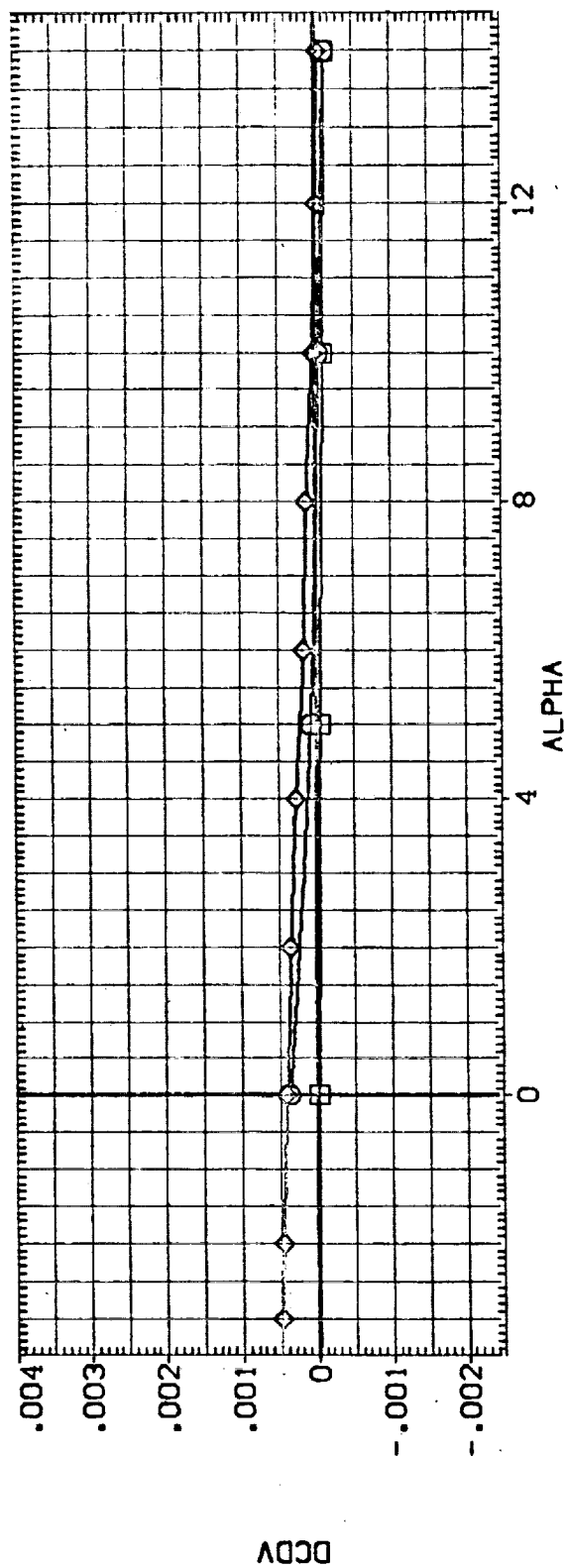


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .5053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5535 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

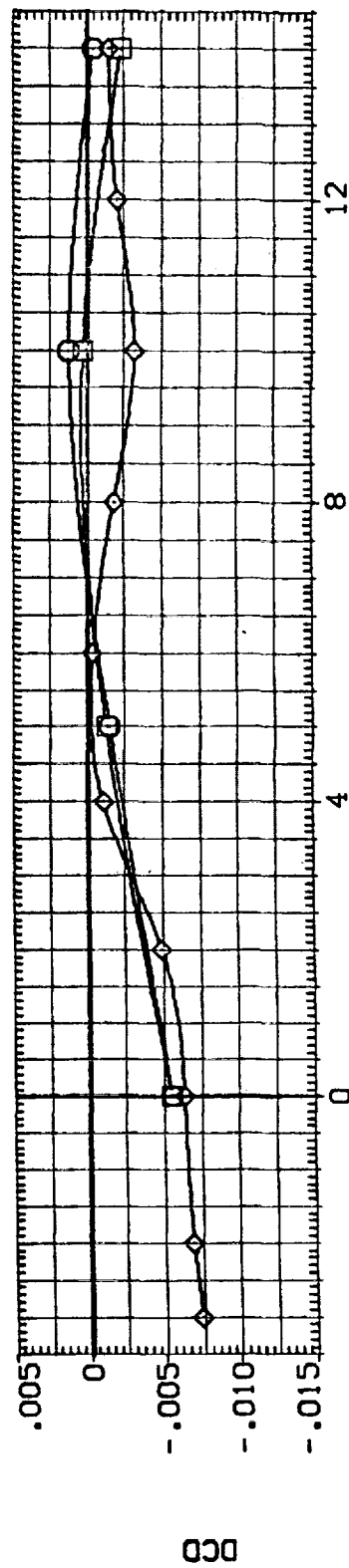
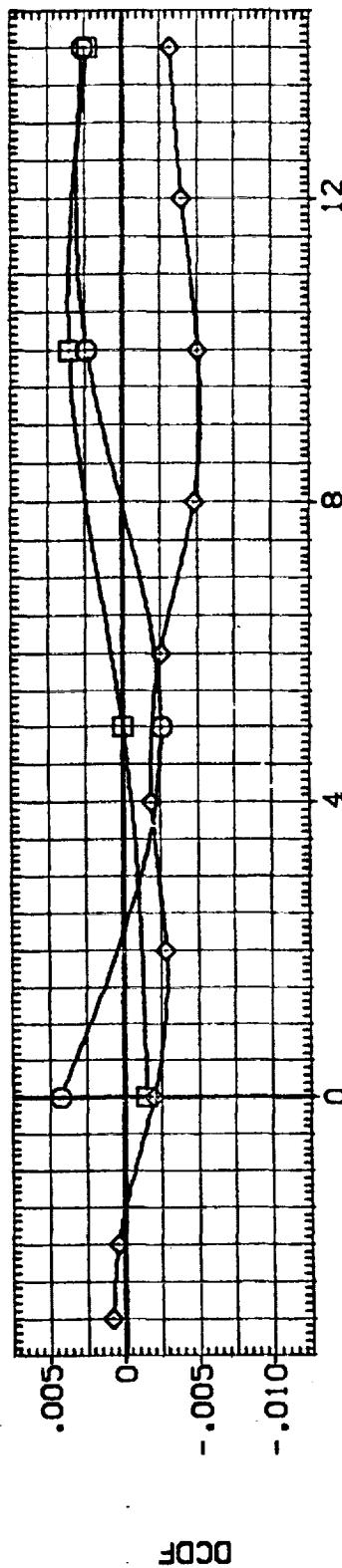
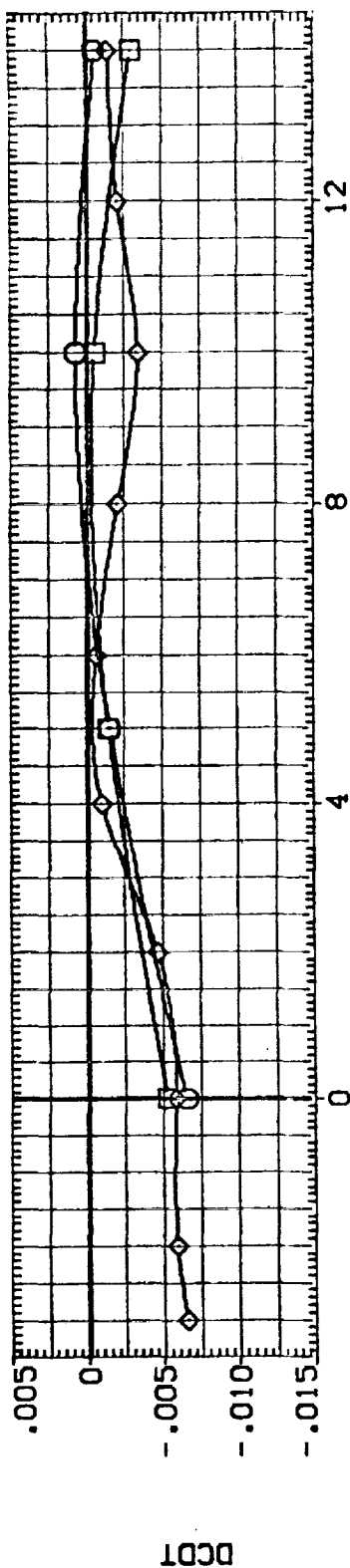


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

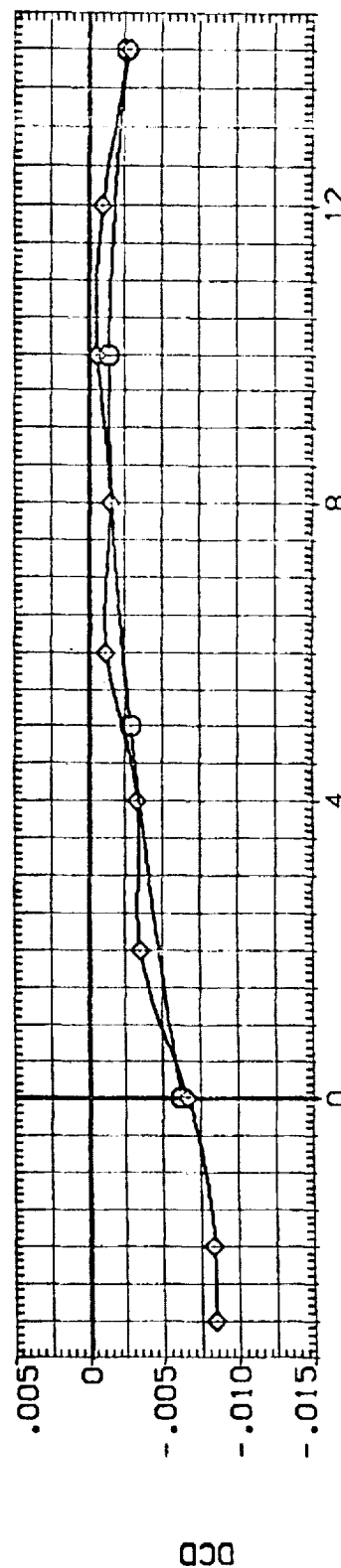
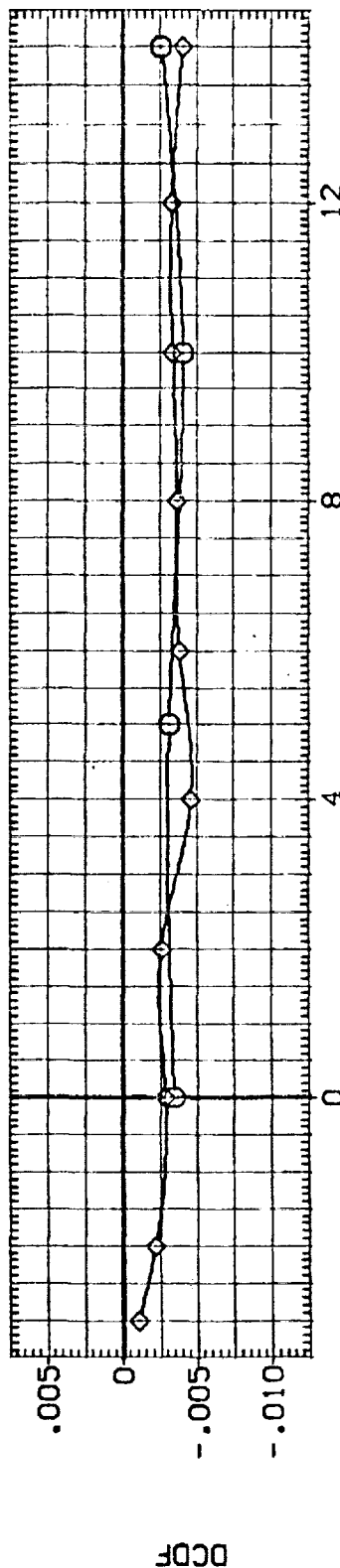
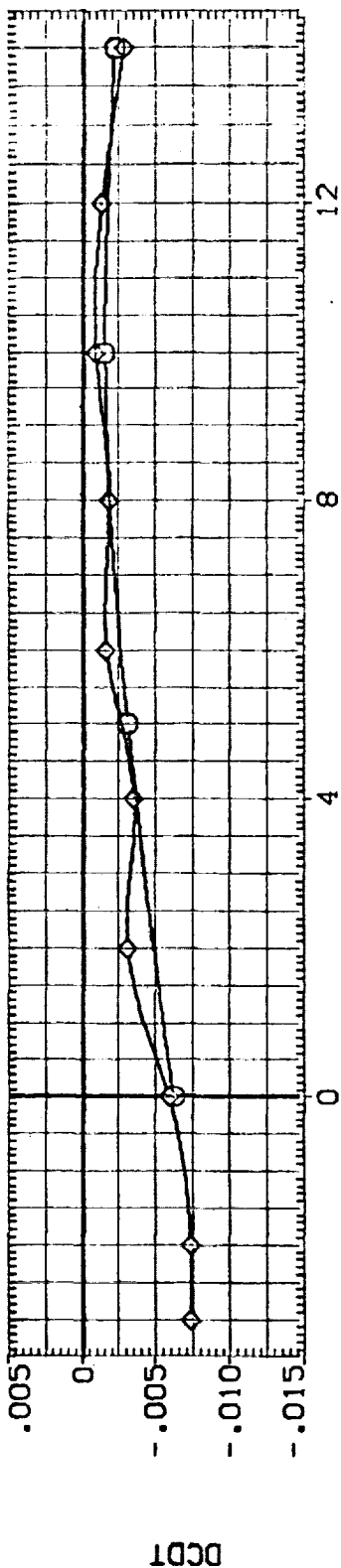


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 65-709 DASS 0A11A-(RS V8)-STRUT  
 (UER009) DATA NOT AVAILABLE  
 (UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5535 FT.  
 BREF 1.170 IN.  
 XMRP 12.6755 IN.  
 YMRP .0000 IN.  
 ZMRP -3.50 IN.  
 SCALE 0.150

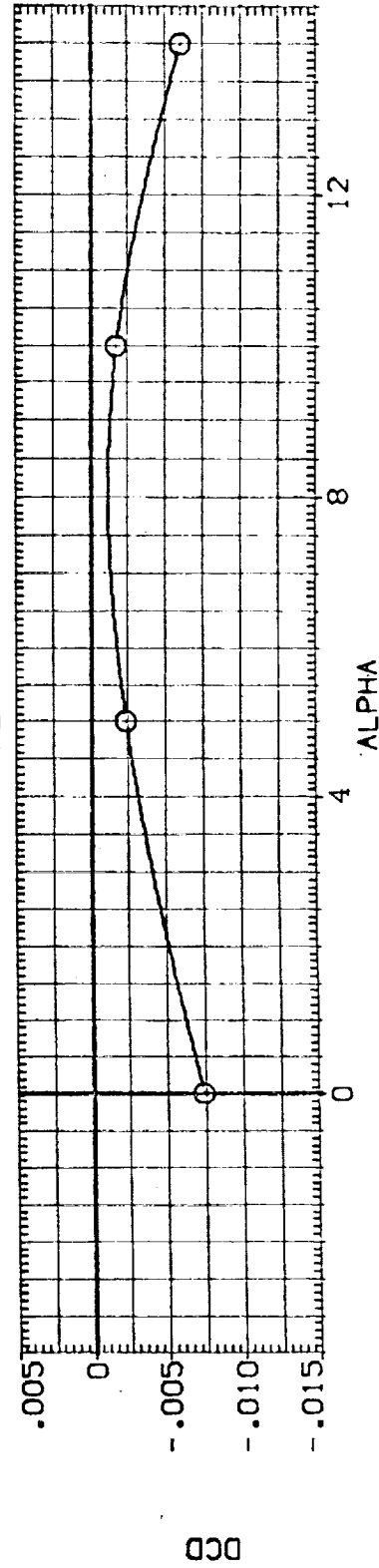
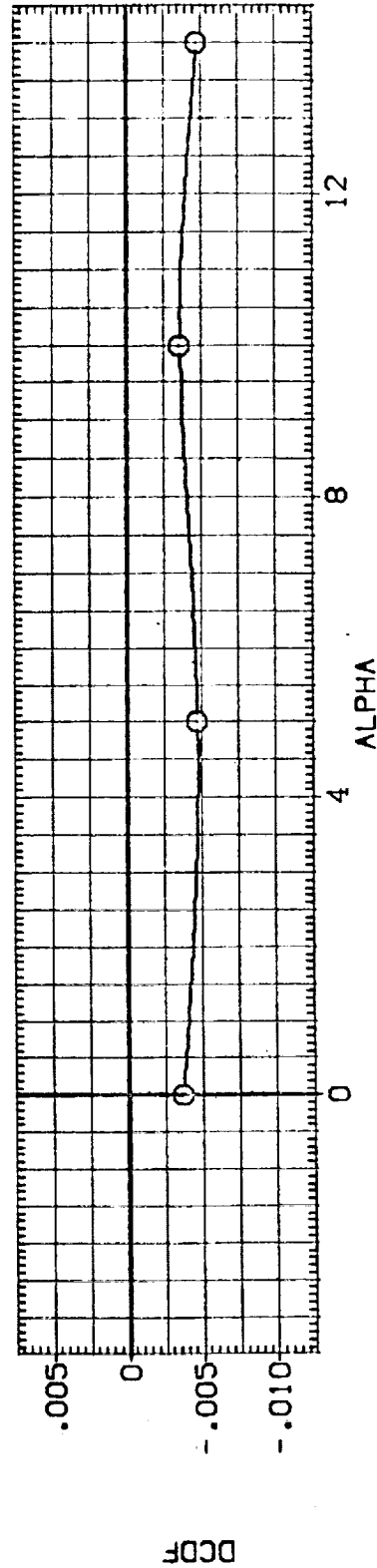
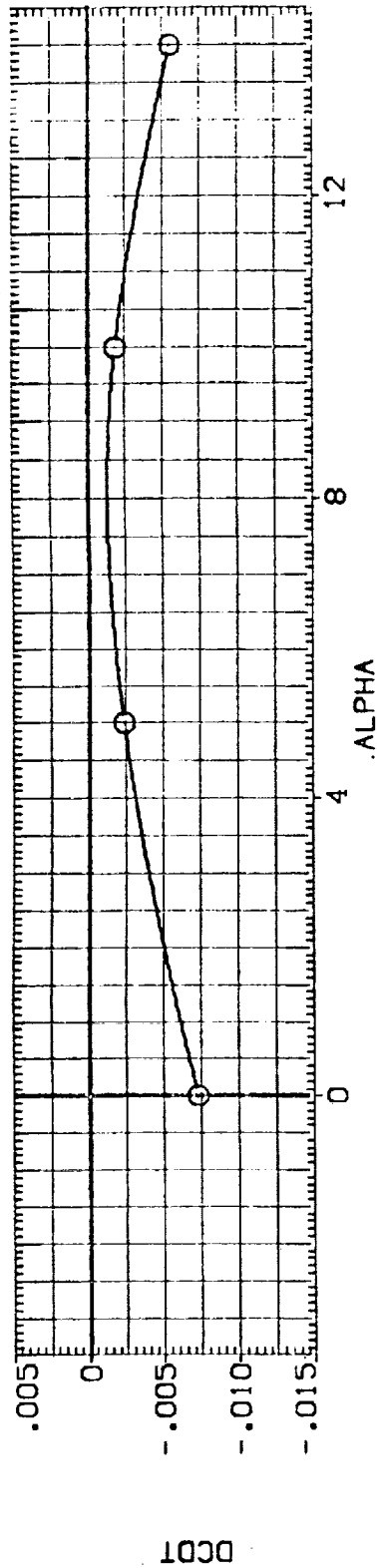


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 66-709 0A59 0A11A-(RS VB)+STRUT  
 (UER009) ARC 66-709 0A59 0A11A-(N24 RS VB)+STRUT  
 (UER013) ARC 66-709 0A59 0A11A-(RS VB)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .8053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

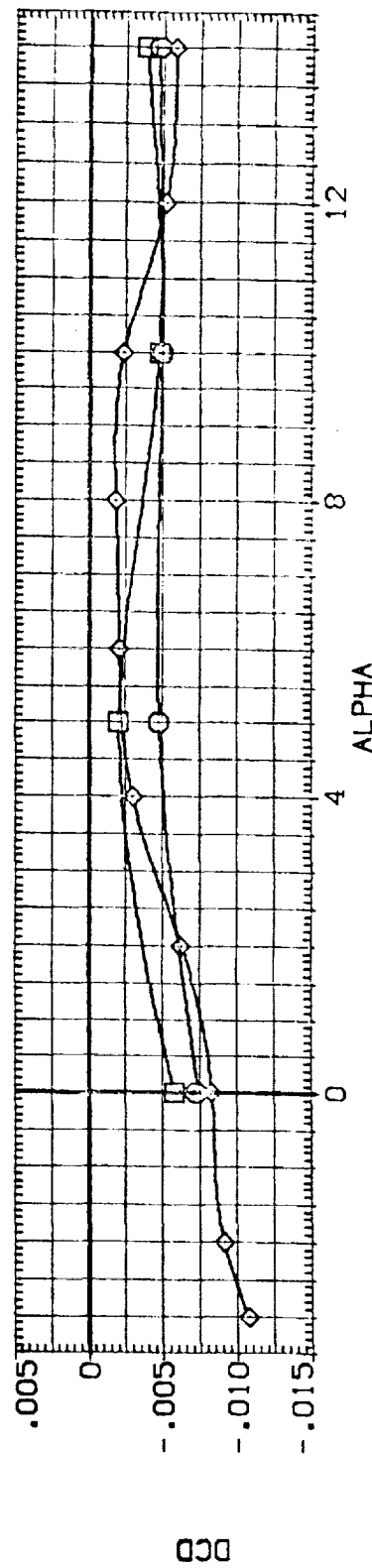
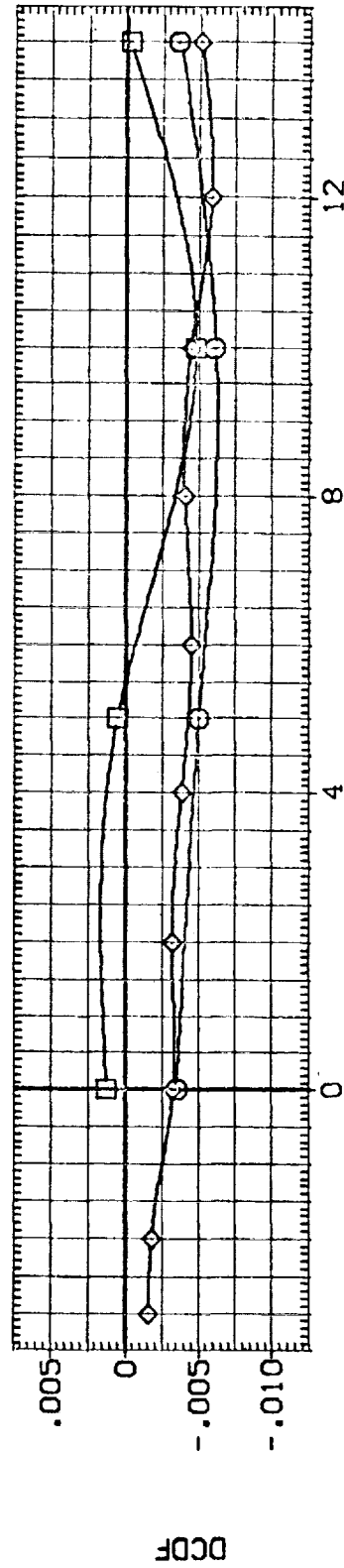
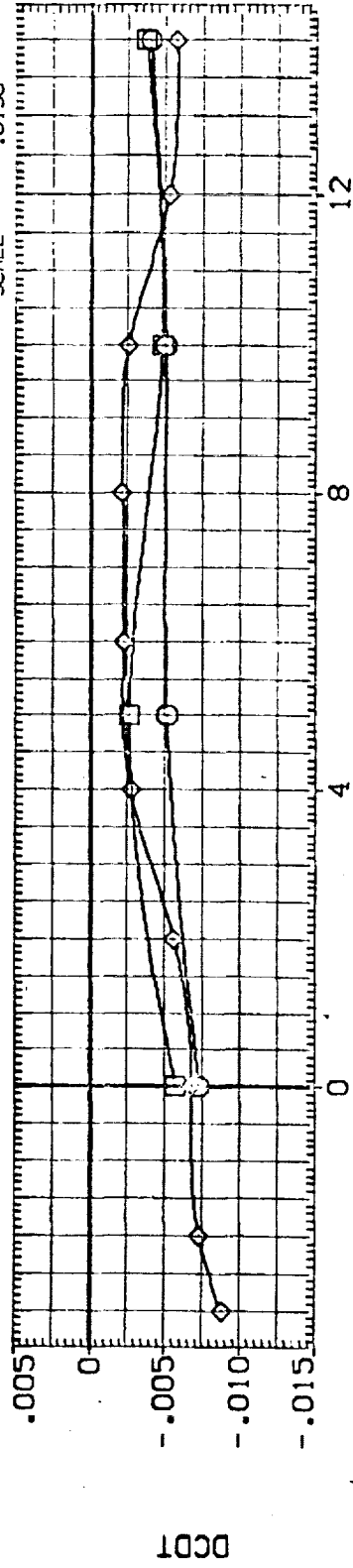


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(CD)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 66-709 OAS9 0A11A-(R5 V8)-STRUT  
 (UER009) DATA NOT AVAILABLE  
 (UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

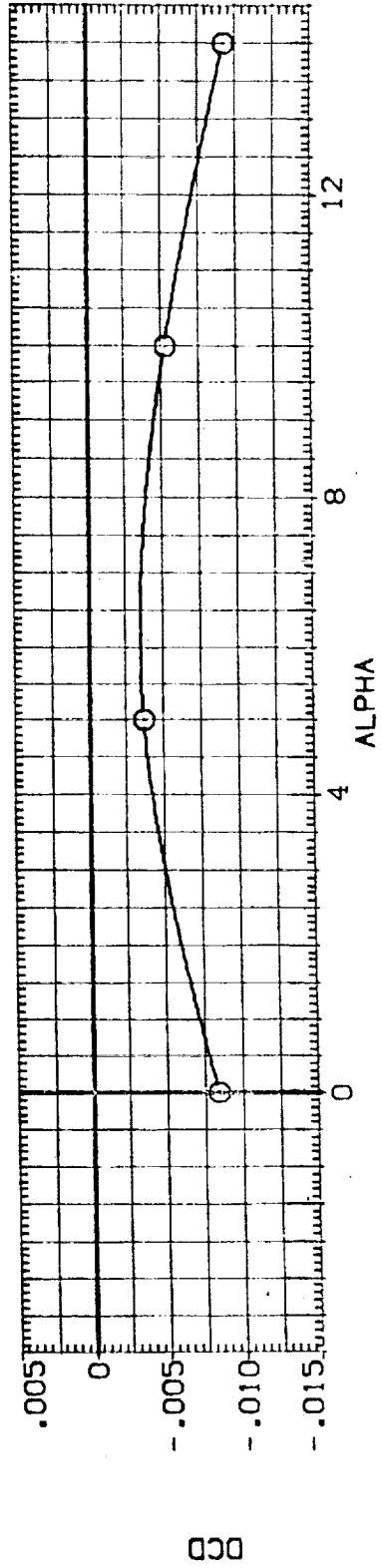
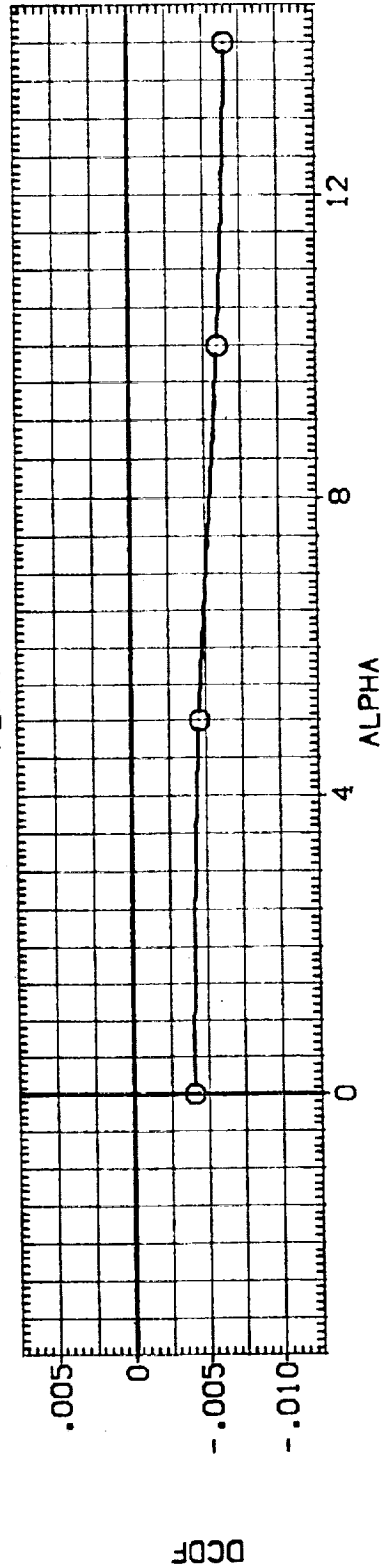
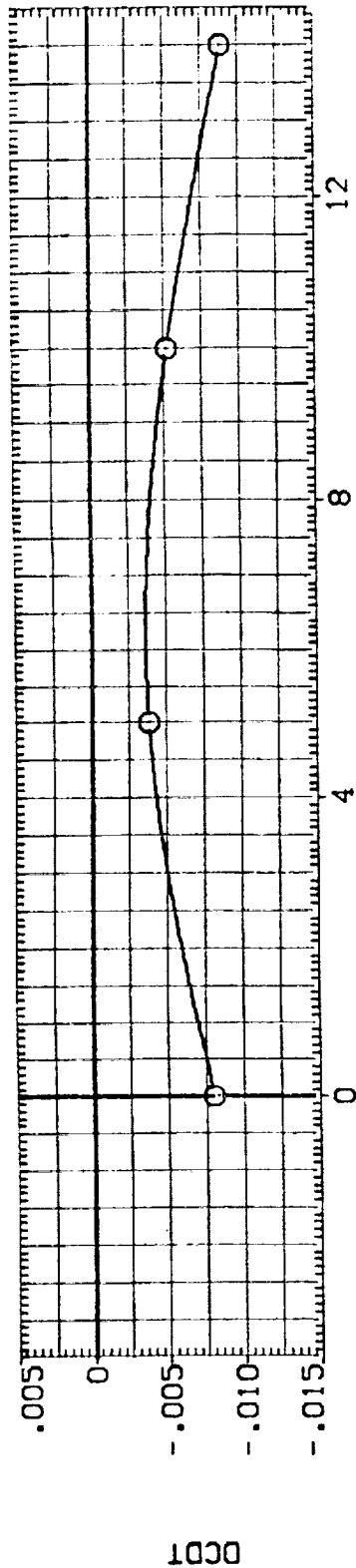


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6253 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

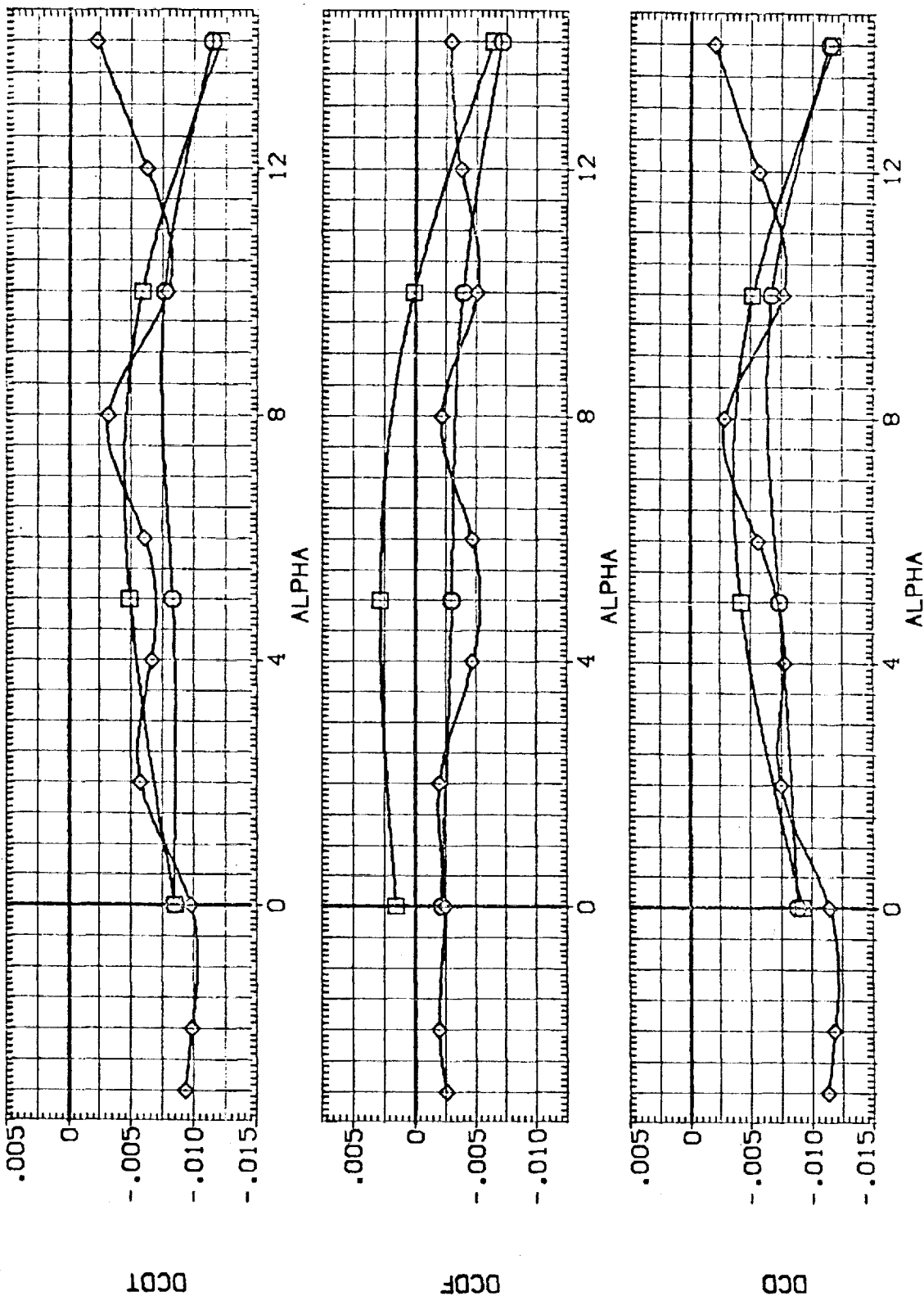



FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:  
 {UER012} ARC 65-709 QAS9 0A11A-(P5 V8)+STRUT  
 {UER009} DATA NOT AVAILABLE  
 {UER013} DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 IN.  
 YMRP 12.6255 IN.  
 ZMRP .0000 IN.  
 SCALE -.3750 IN.  
 .0150

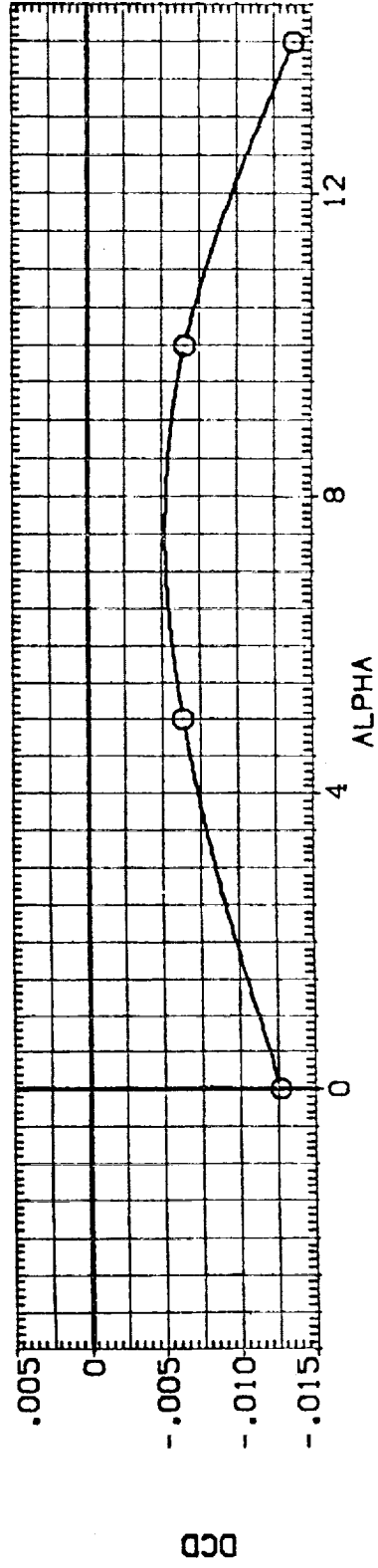
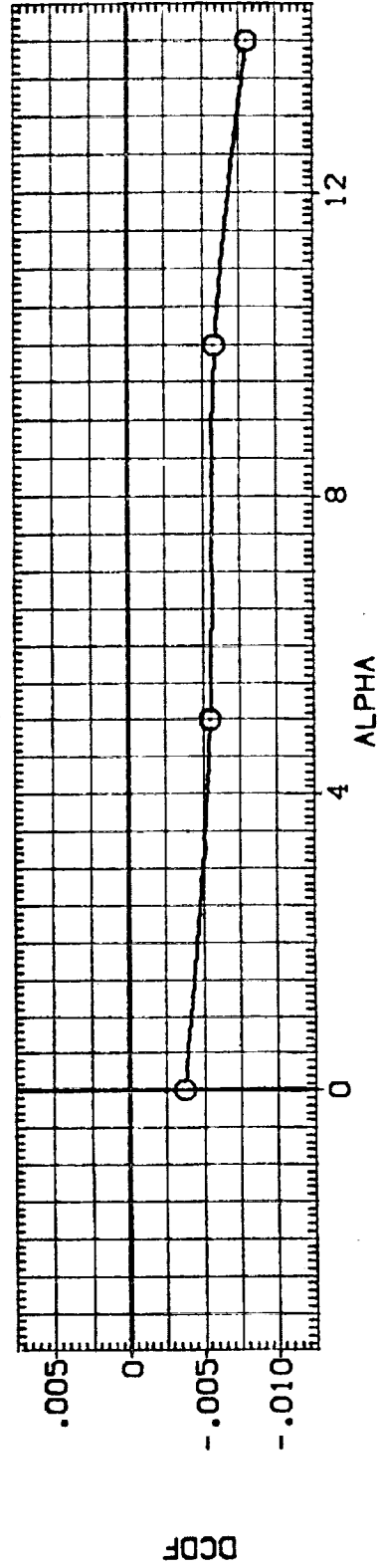
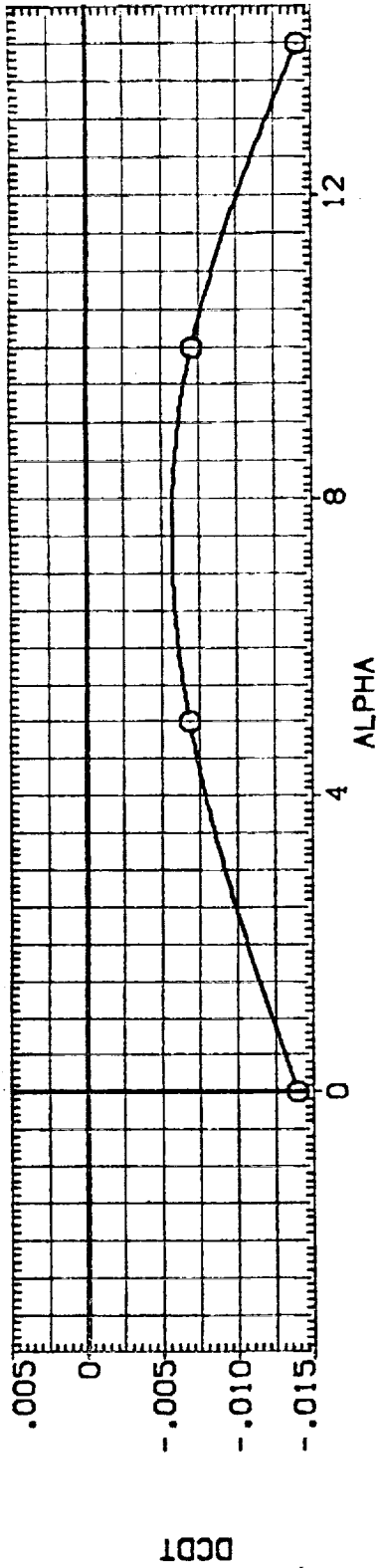


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 DASS9 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	ARC 66-709 DASS9 DAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 DASS9 DAI1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

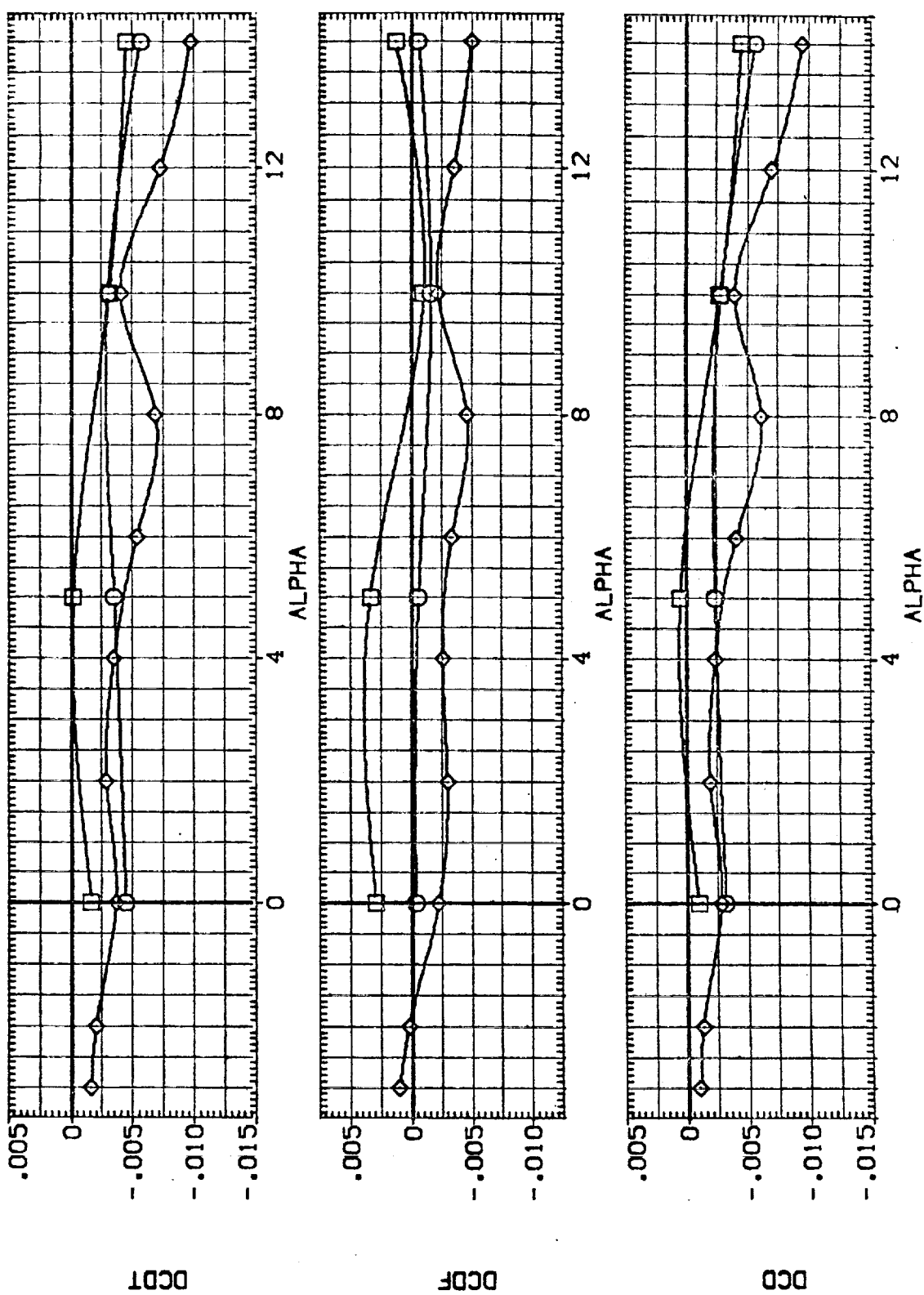


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

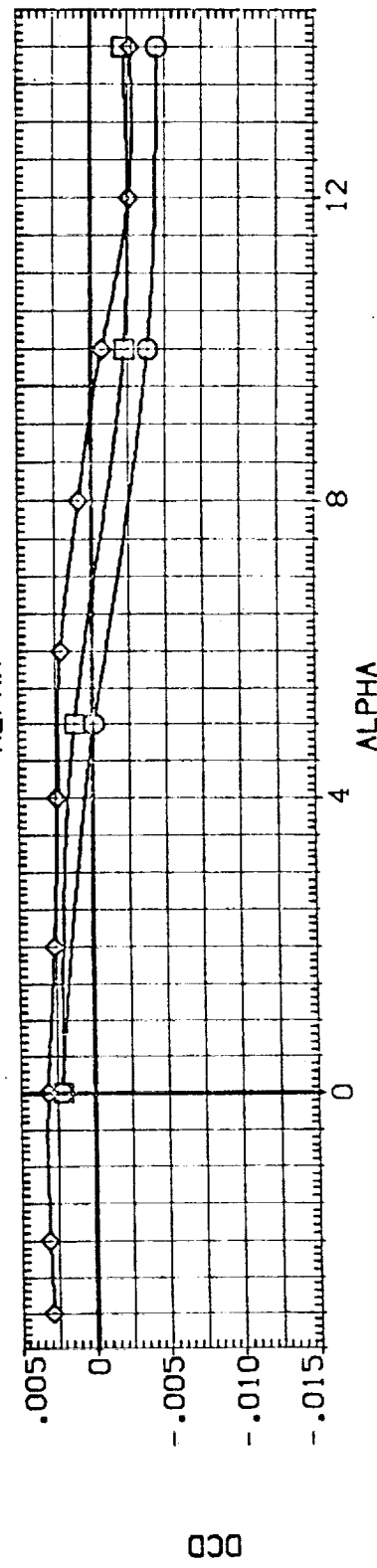
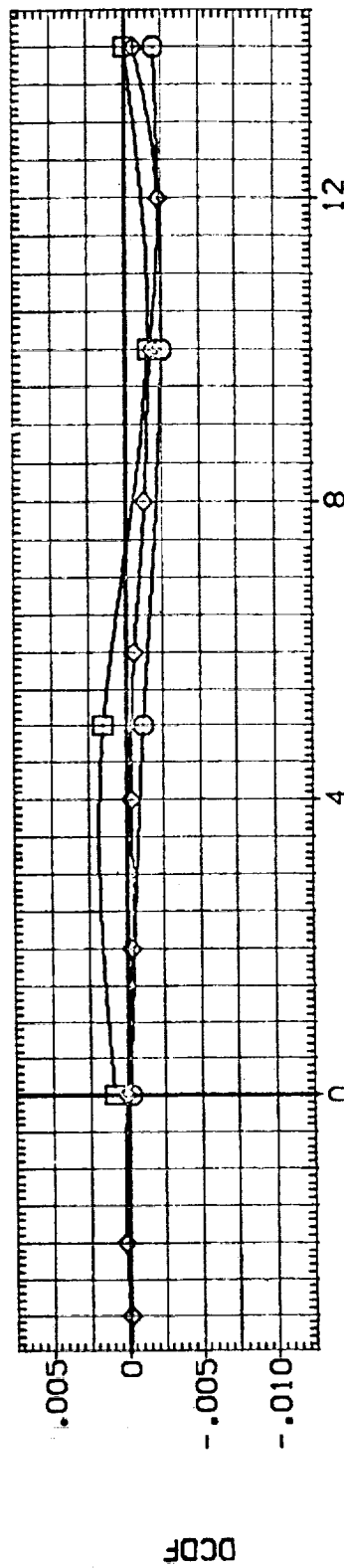
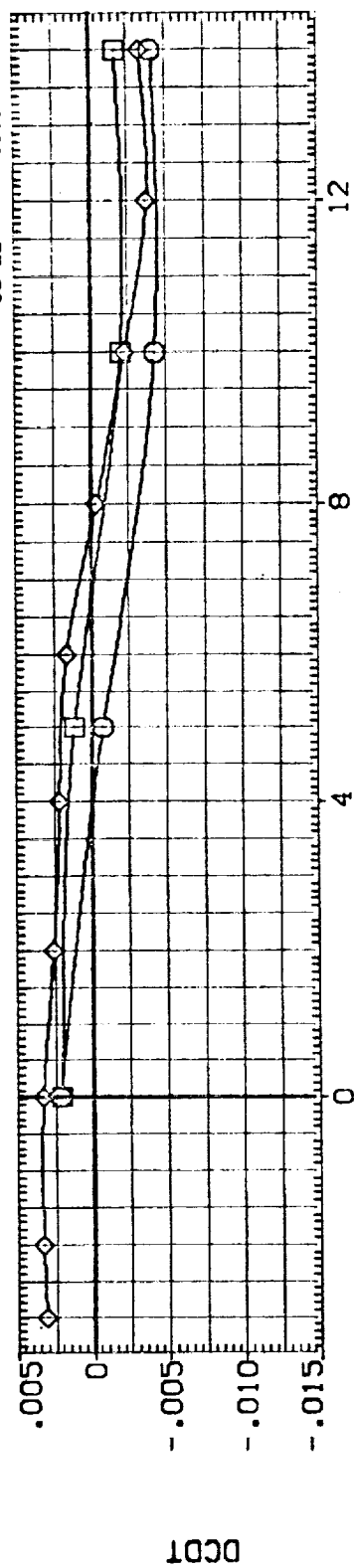


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER01.2)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .8053 SQ.FT.
(UER00.9)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER01.3)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0030 IN.
					ZMRP -.3750 IN.
					SCALE .0150

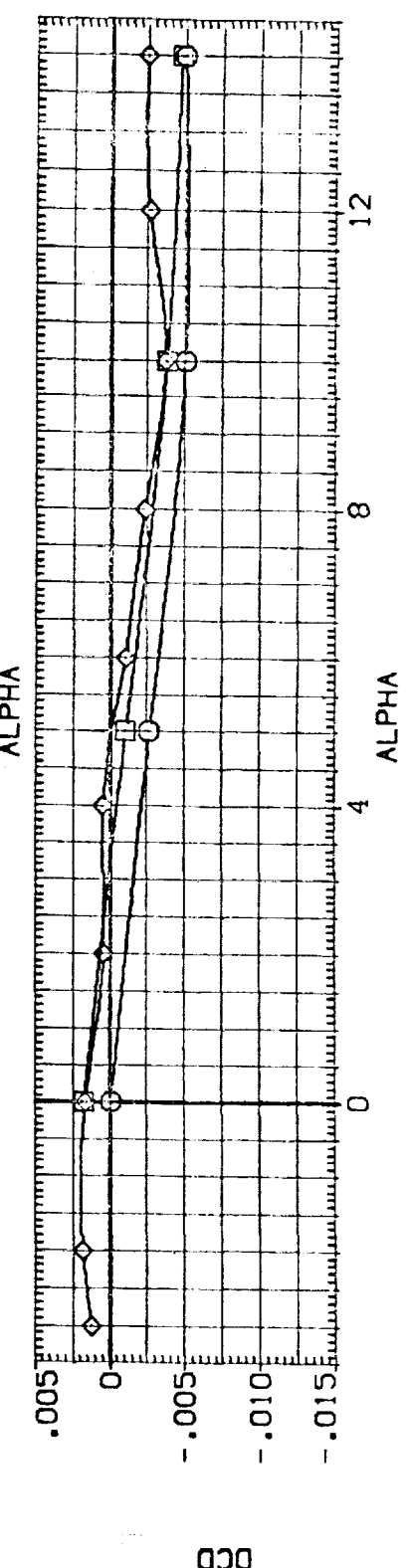
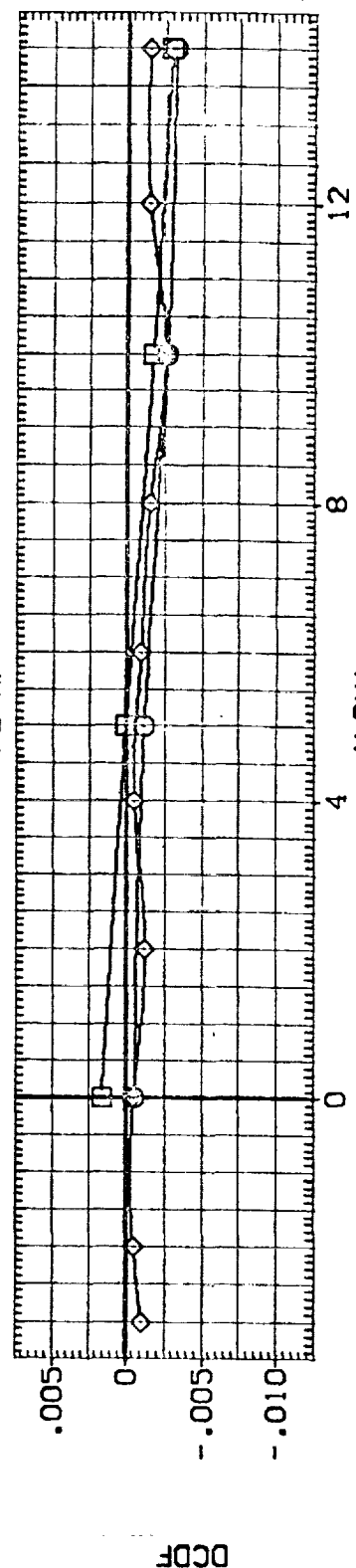
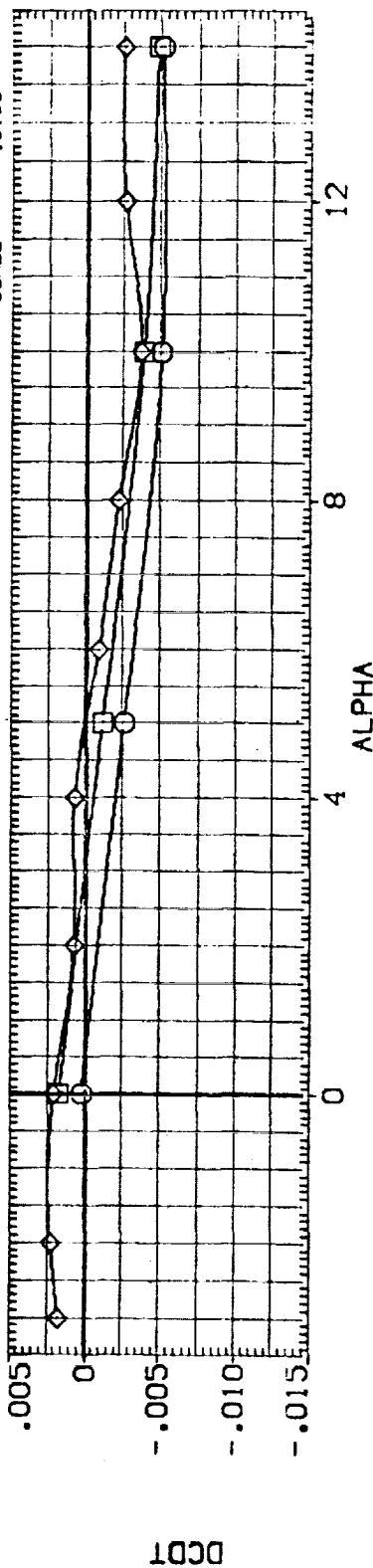


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(JJ)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMPP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

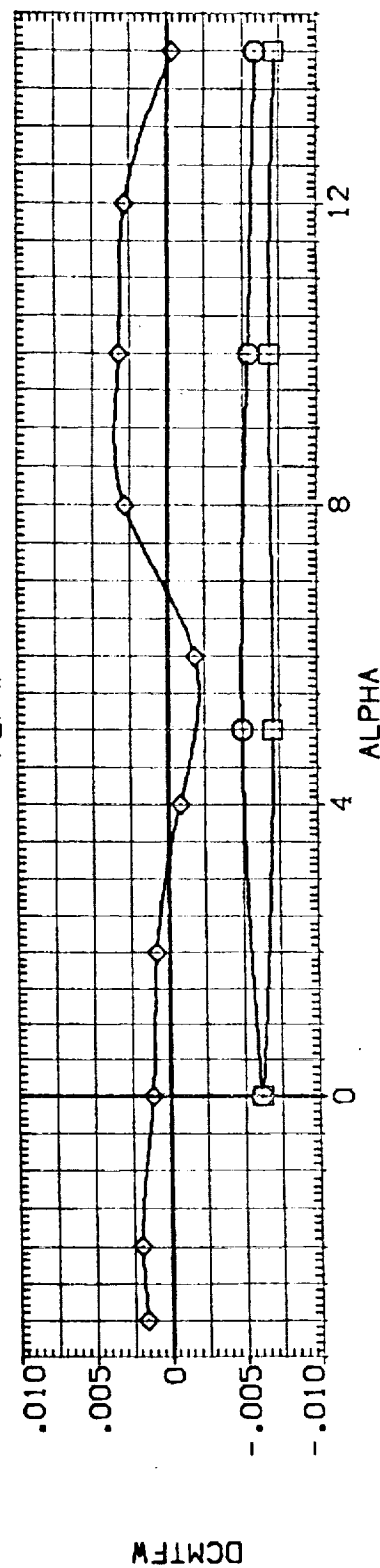
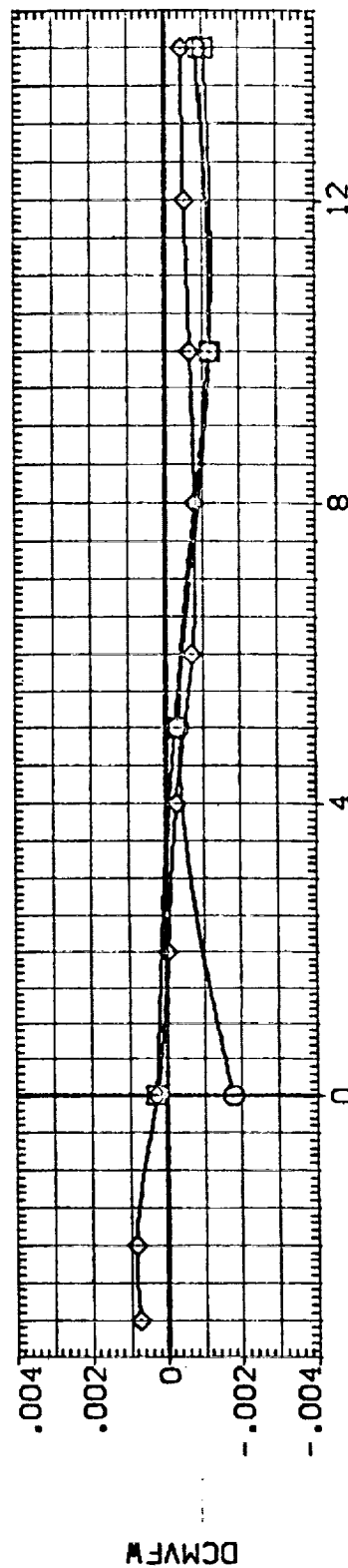
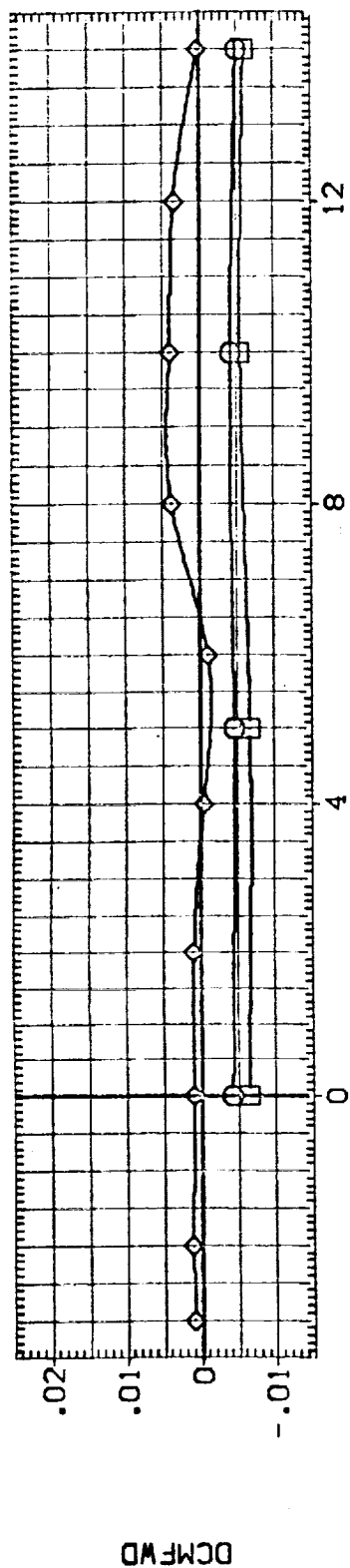


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5835 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

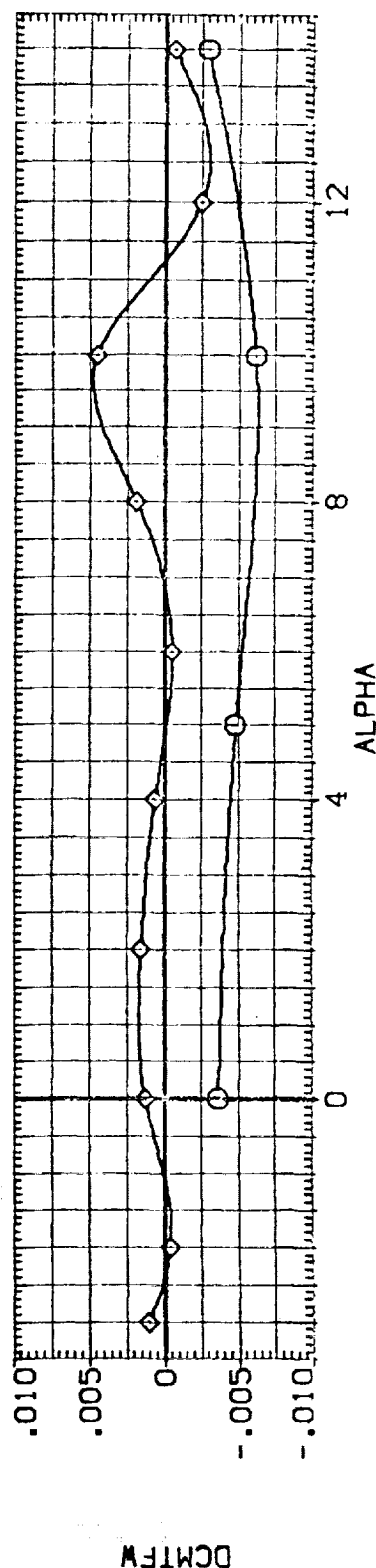
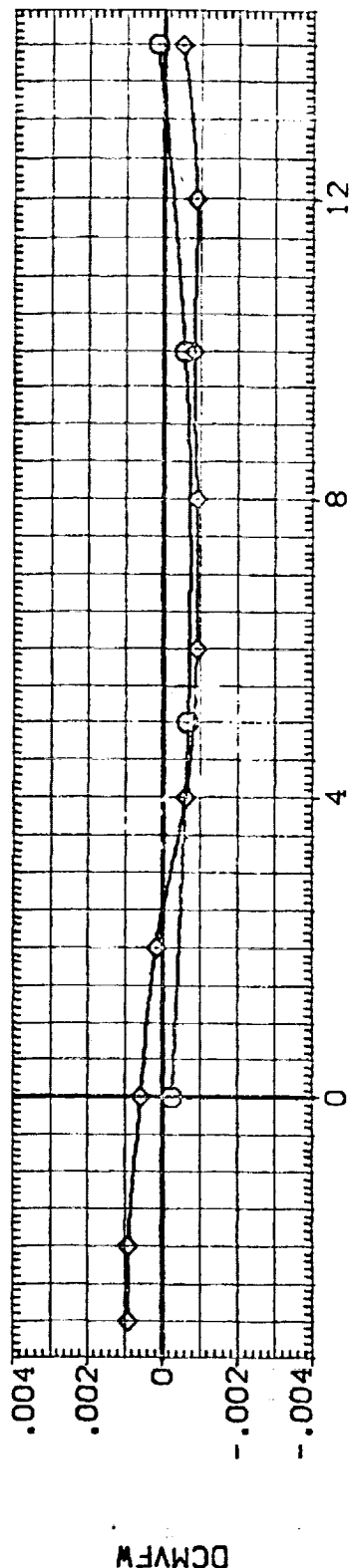
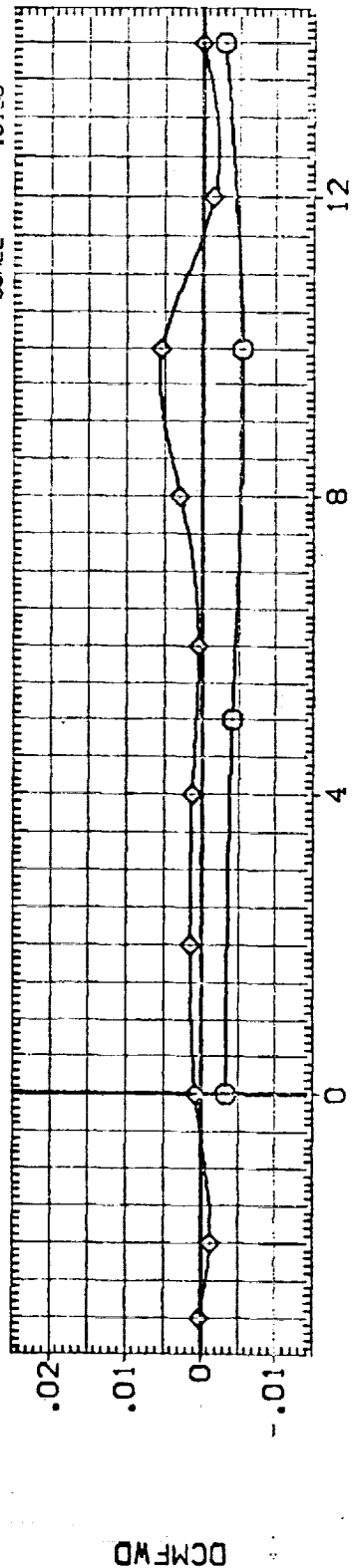


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70



DATA SET SYMBOL: (VER012)  
 (VER008)  
 (VER013)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 OAS9 DA11A-(RS V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 .000  
 .000

ELEVON: .000  
 .000  
 .000

BOFLAP: -11.700  
 -11.700  
 -11.700

REFERENCE INFORMATION:  
 SREF: .6053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6755 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

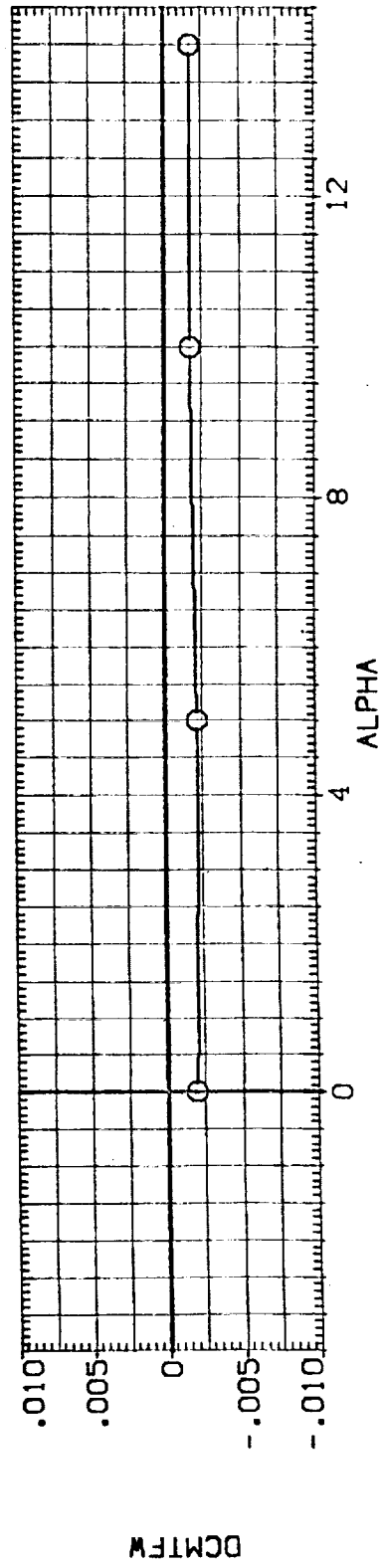
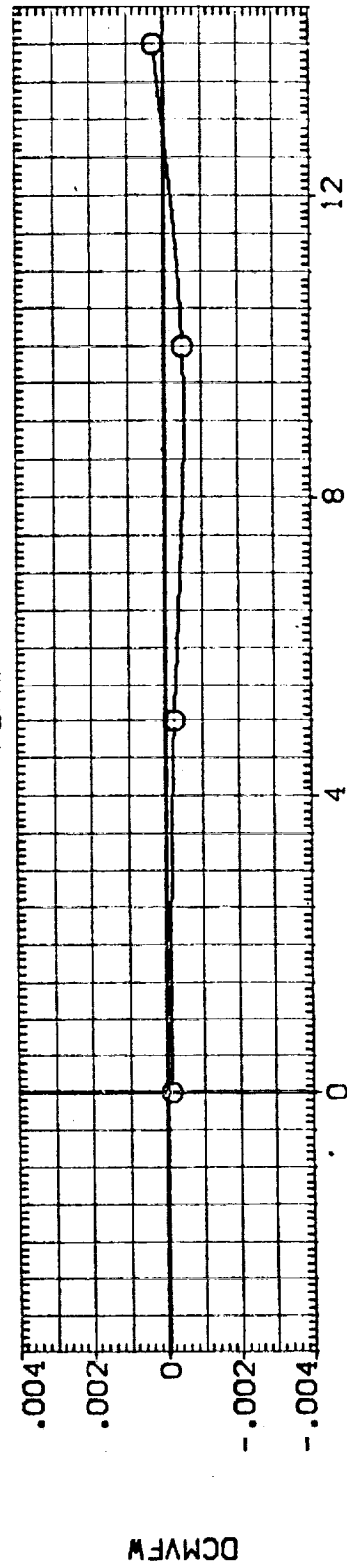
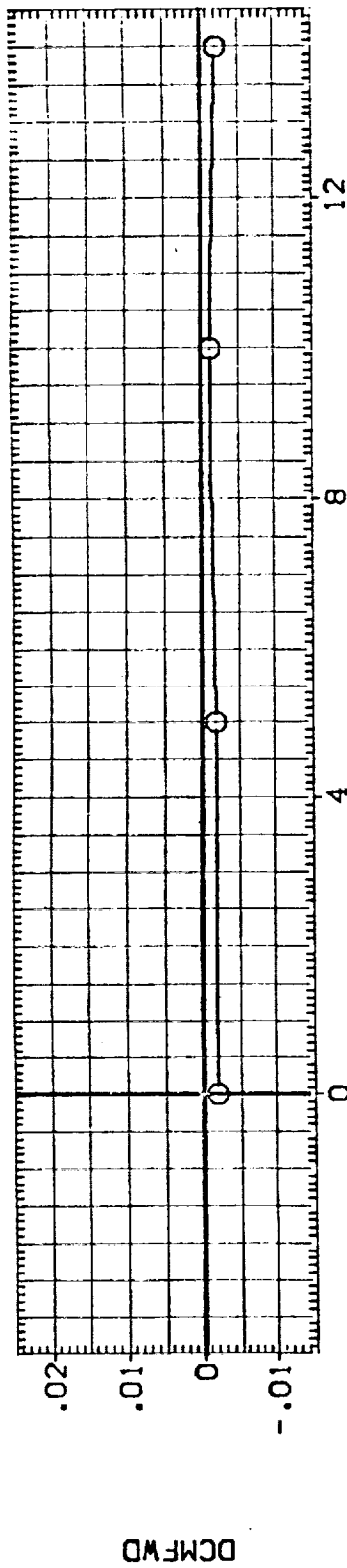


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -3.50 IN.
					SCALE .0150

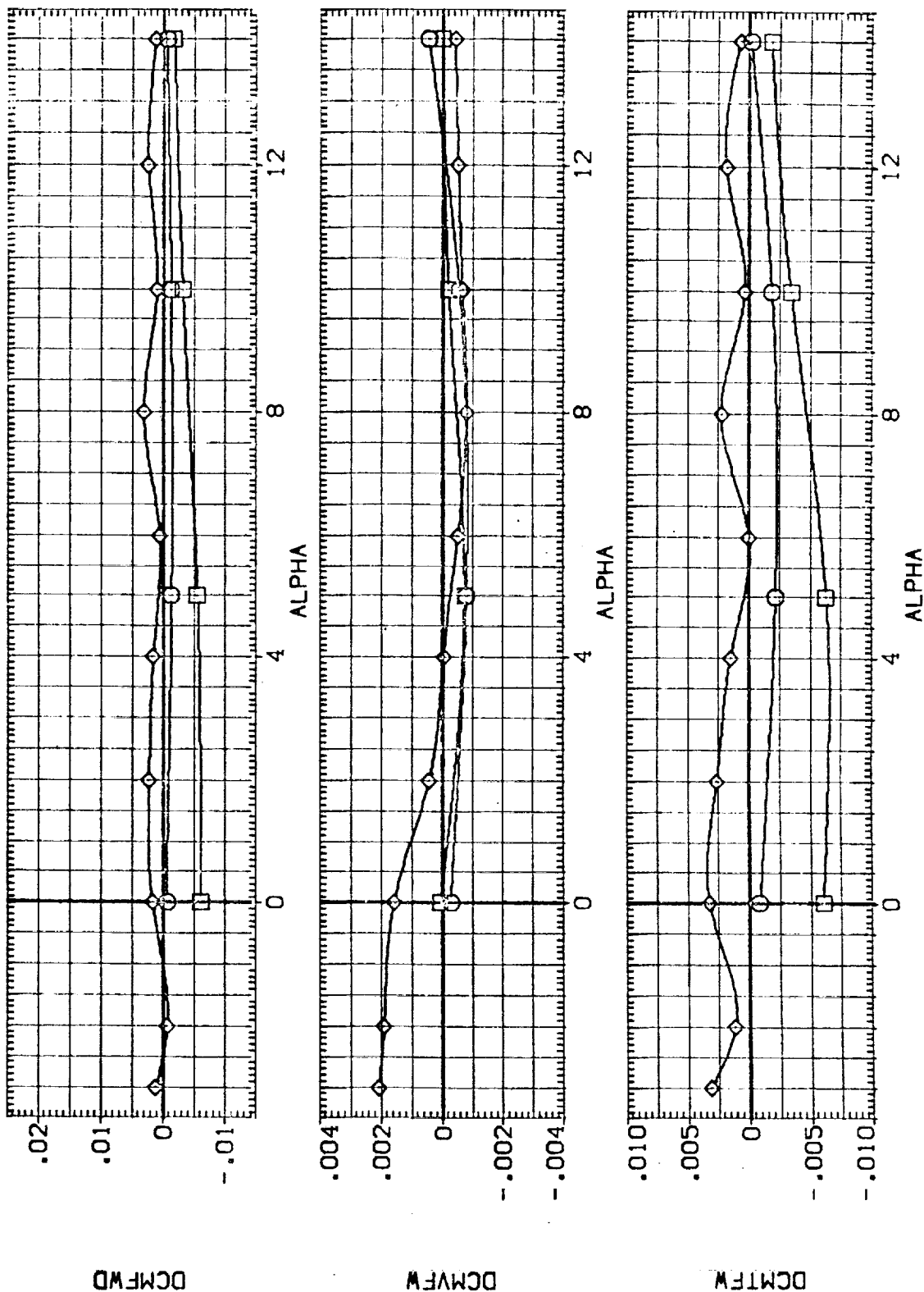


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(0)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 {VER012} ARC 66-709 DASS 0A11A-(RS V8)\*STRUT  
 {VER009} DATA NOT AVAILABLE  
 {VER013} DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.655 IN.  
 YMRP .000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

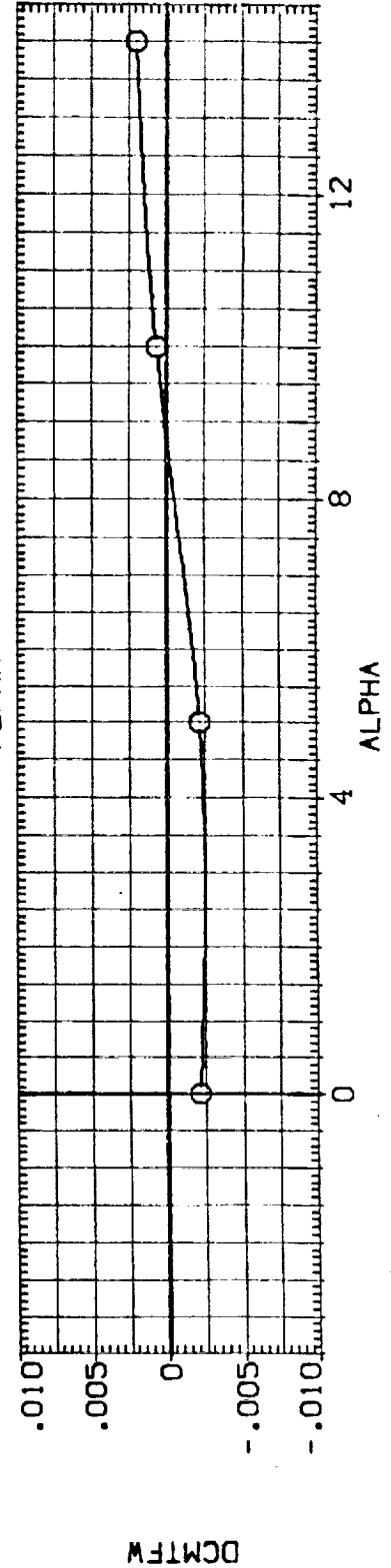
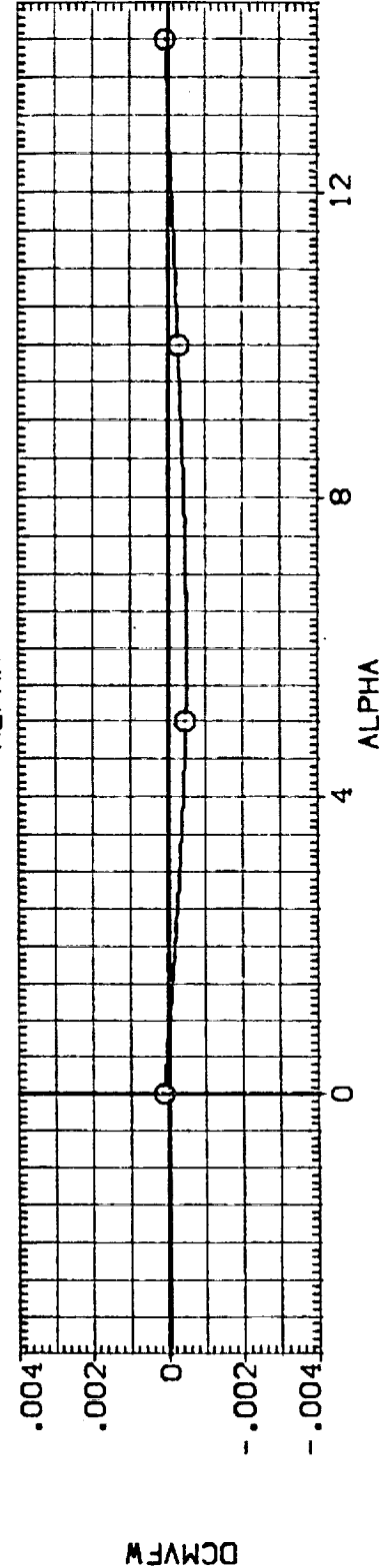
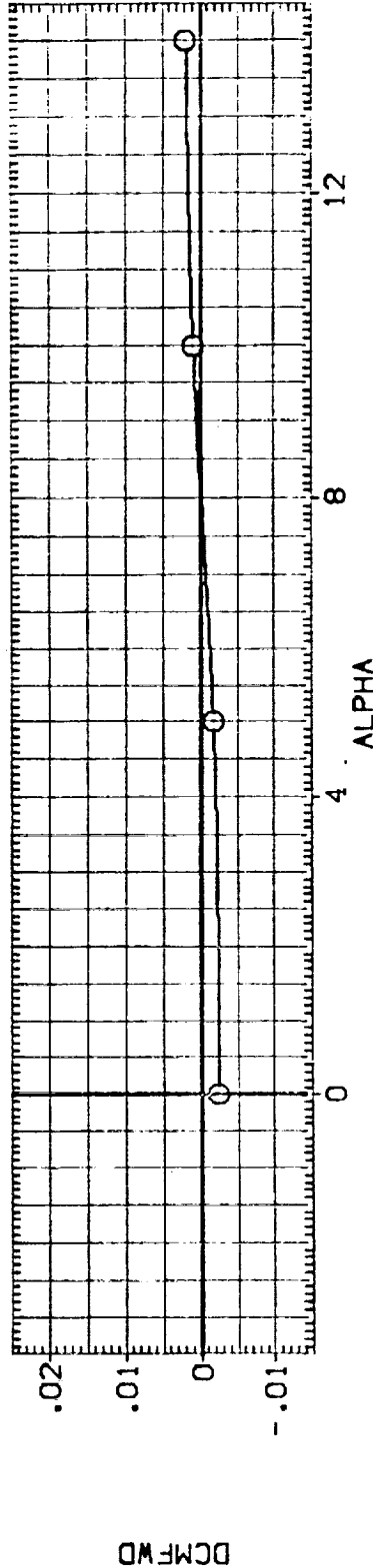


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

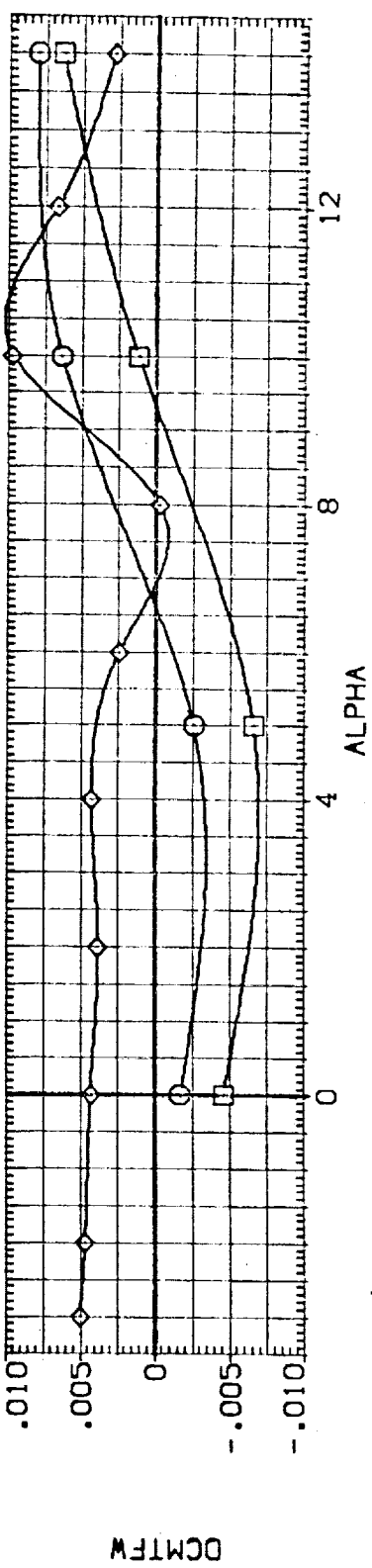
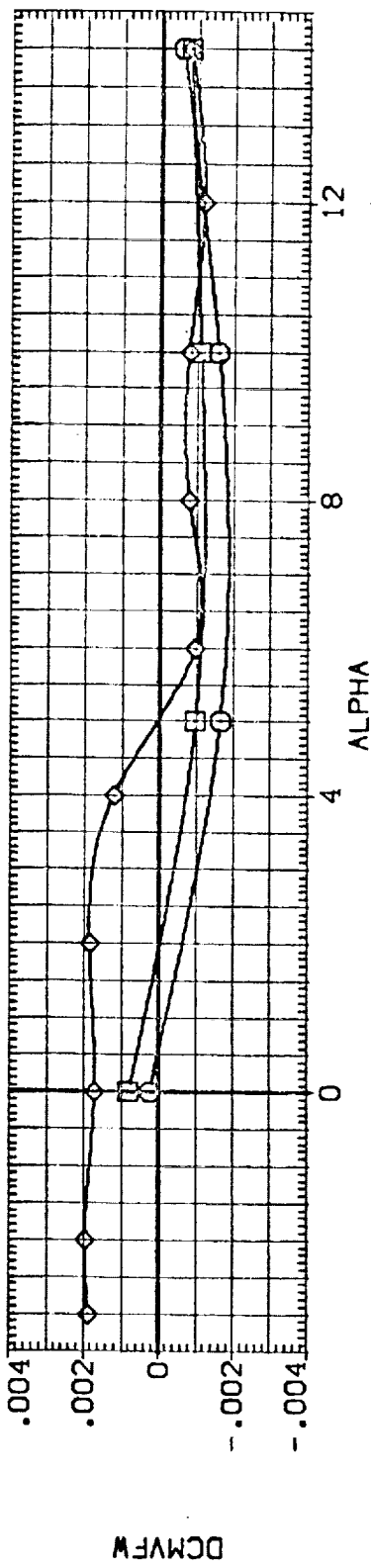
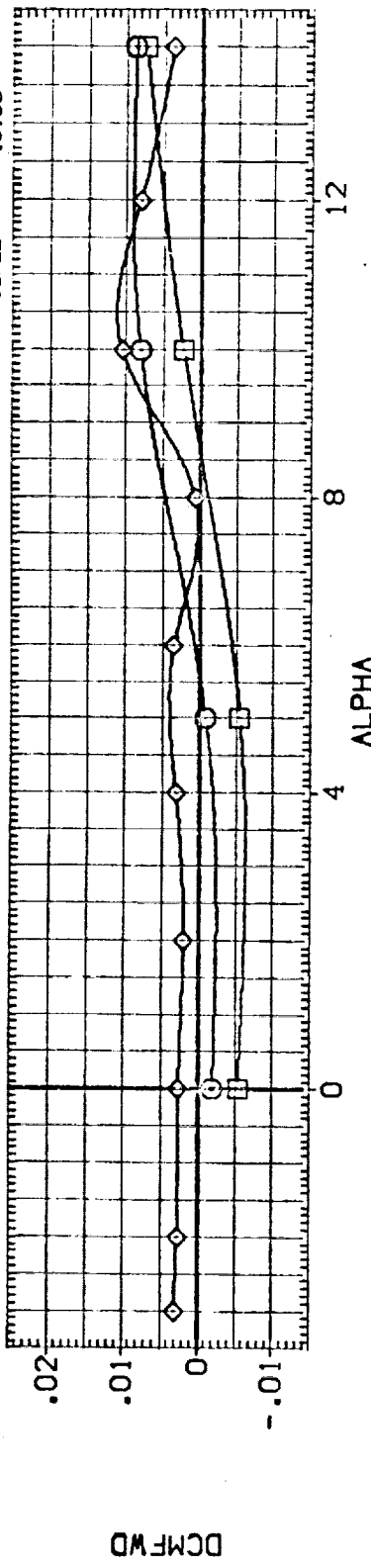



FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .90

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 (VER009) DATA NOT AVAILABLE  
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF -6053 SQ.FT.  
 LREF -5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

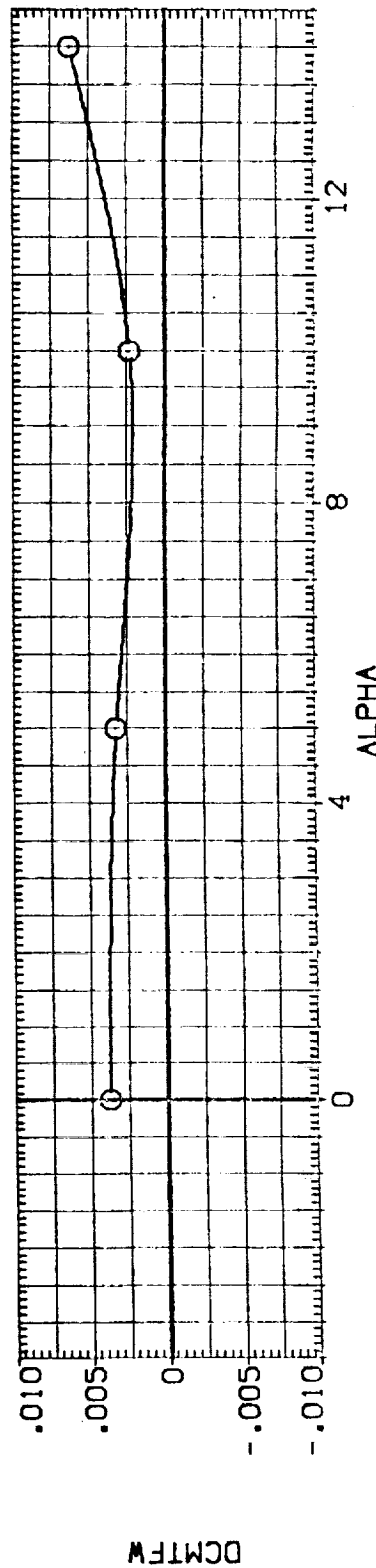
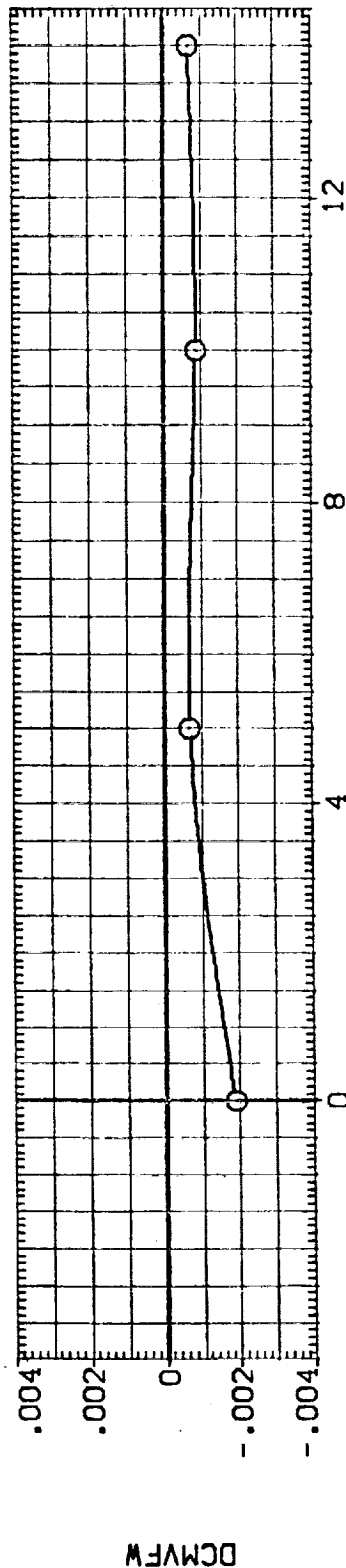
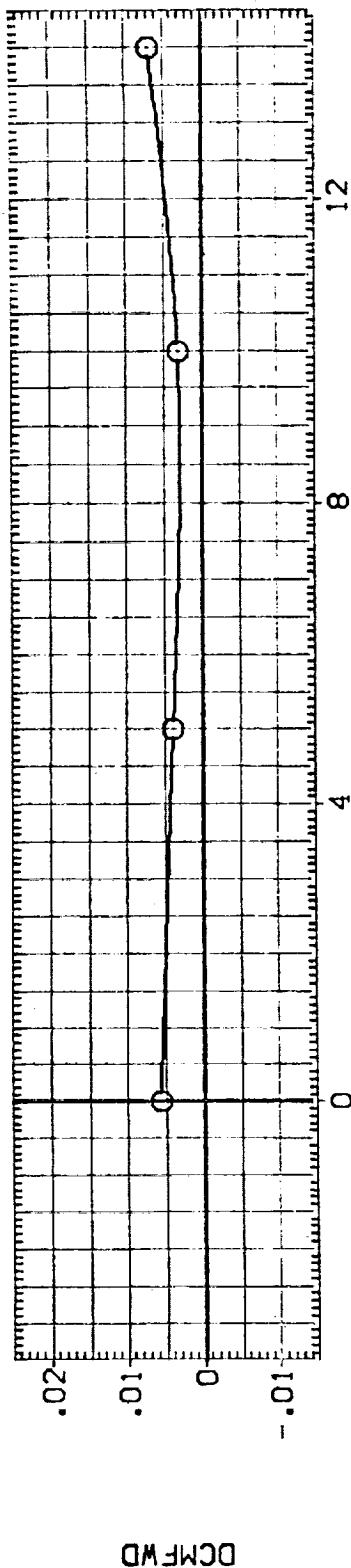


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRF 12.6255 IN.
					YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

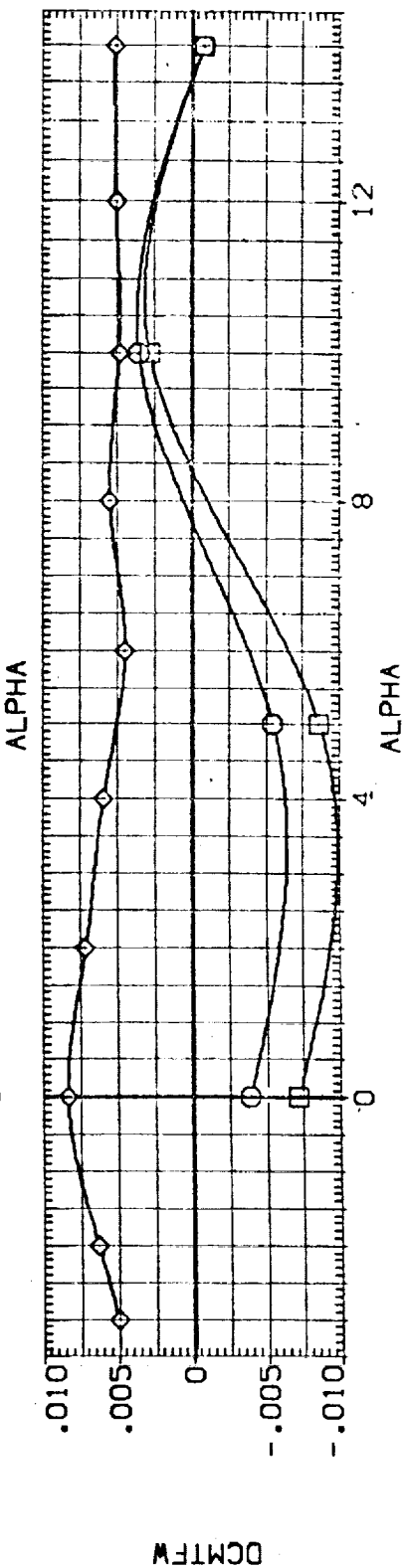
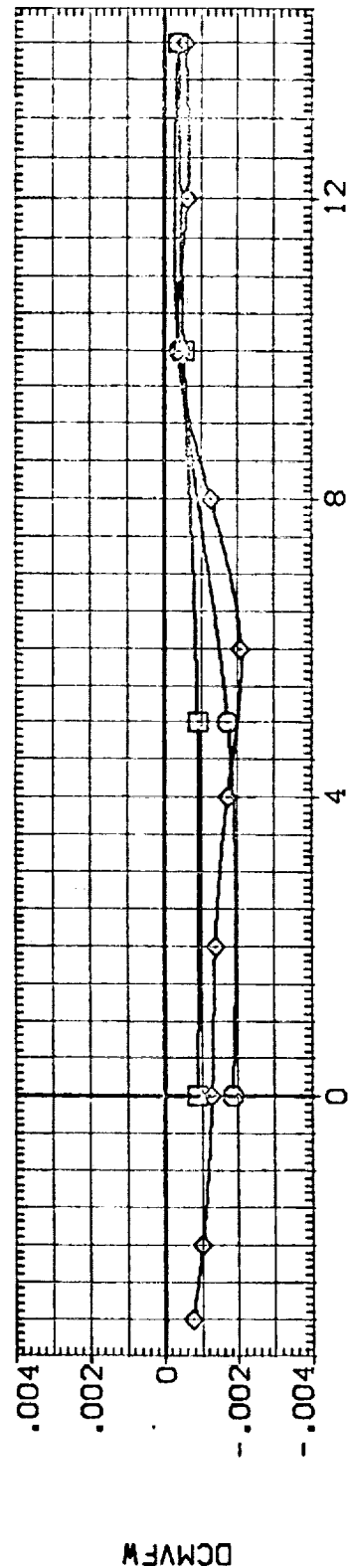
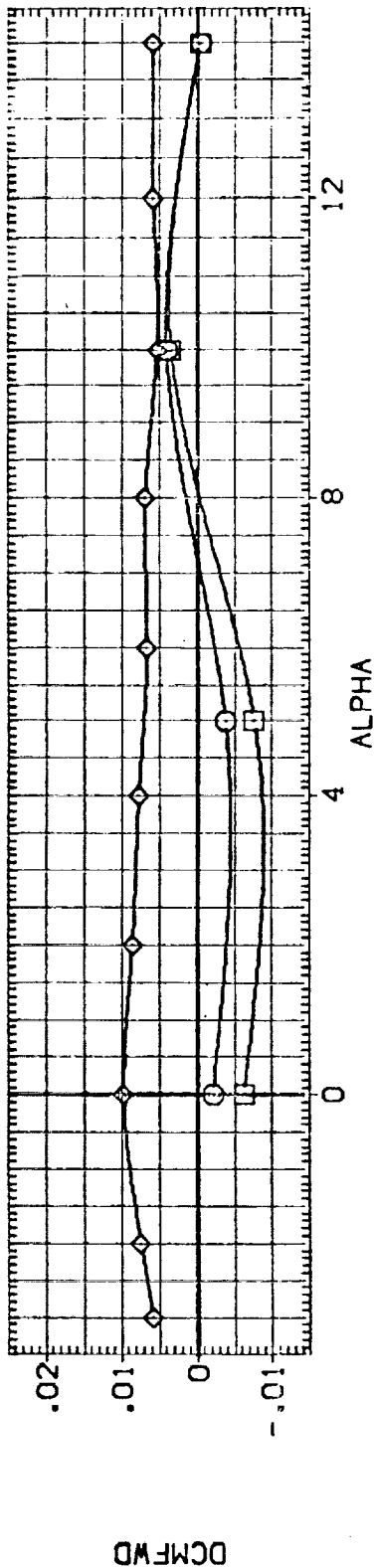


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO09)	ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VERO13)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

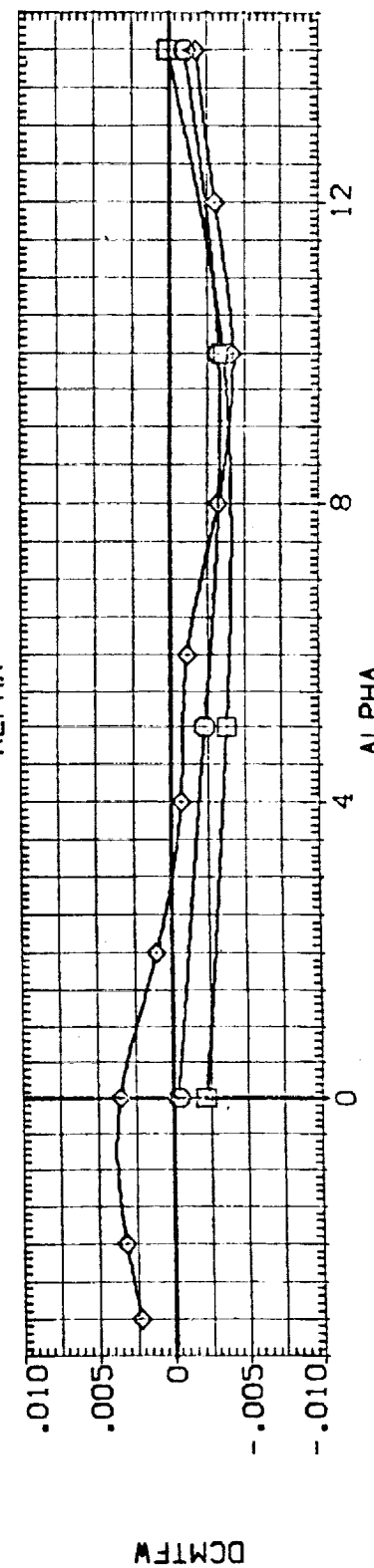
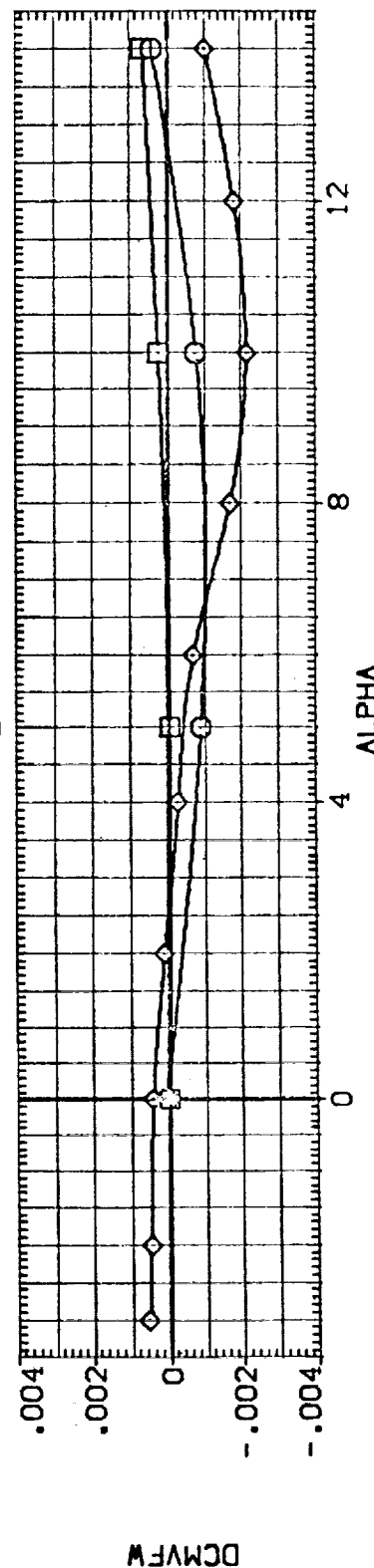
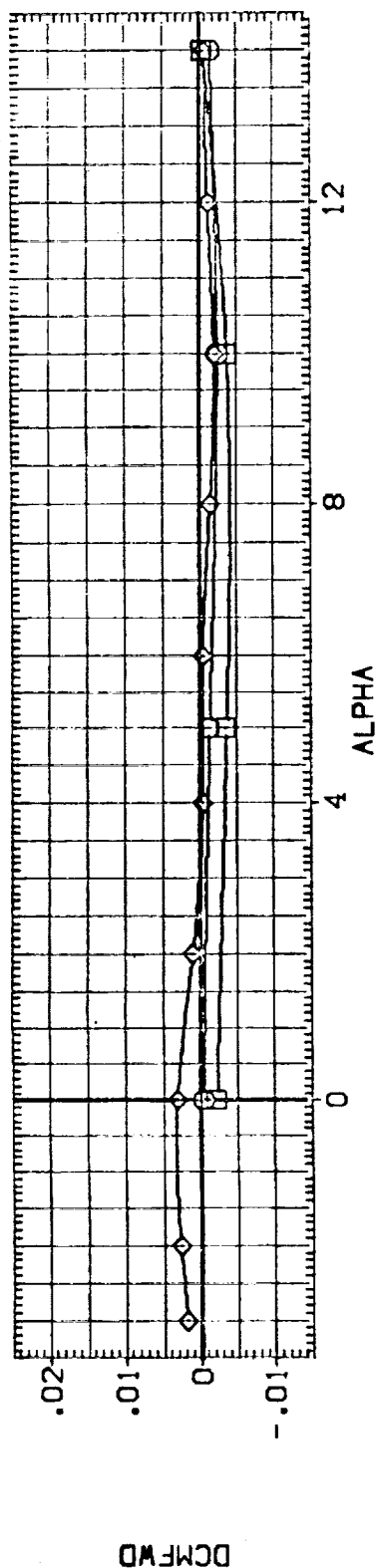


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 D459 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 D459 DA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 D459 DA11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE 0.50

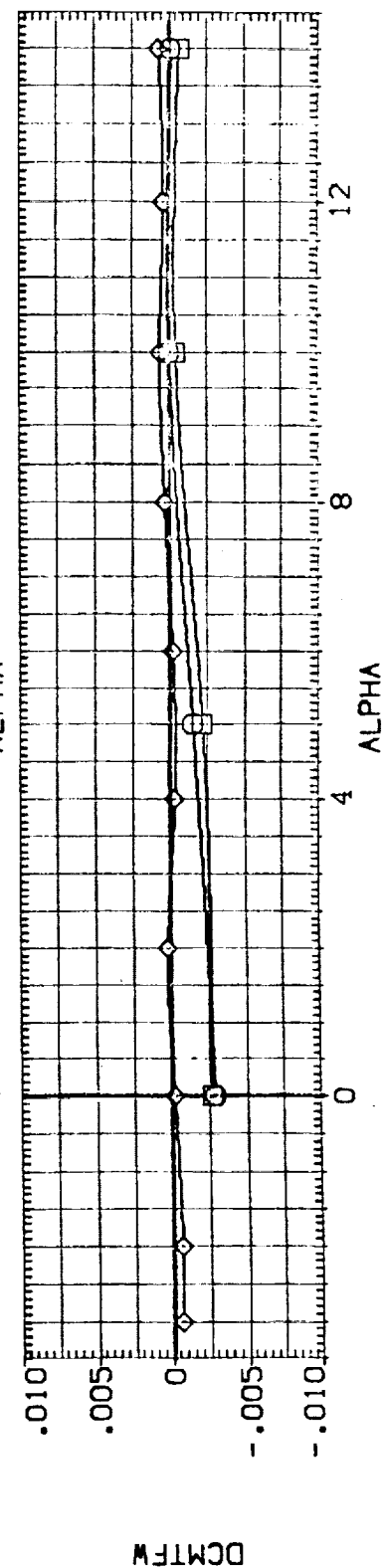
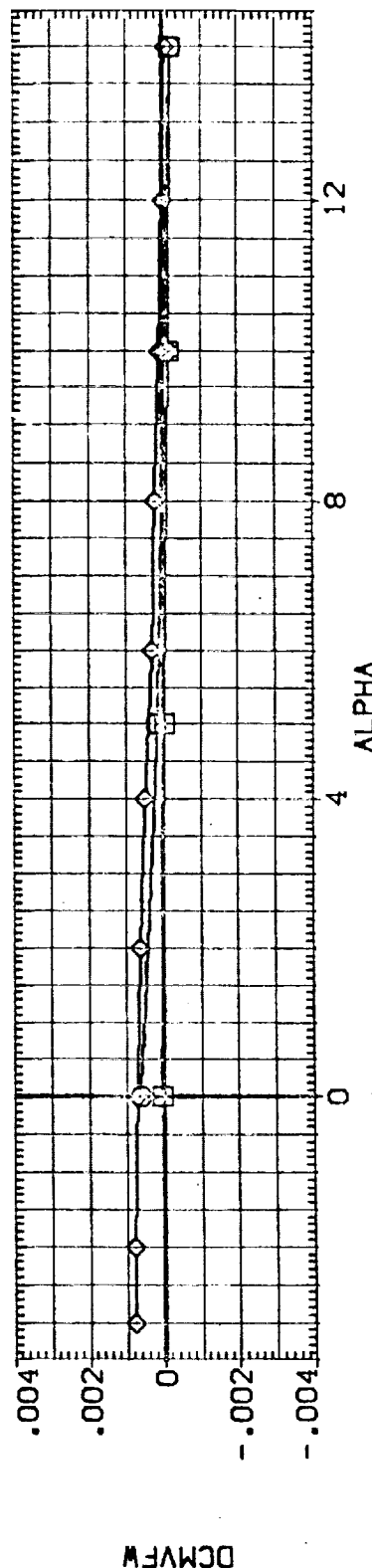
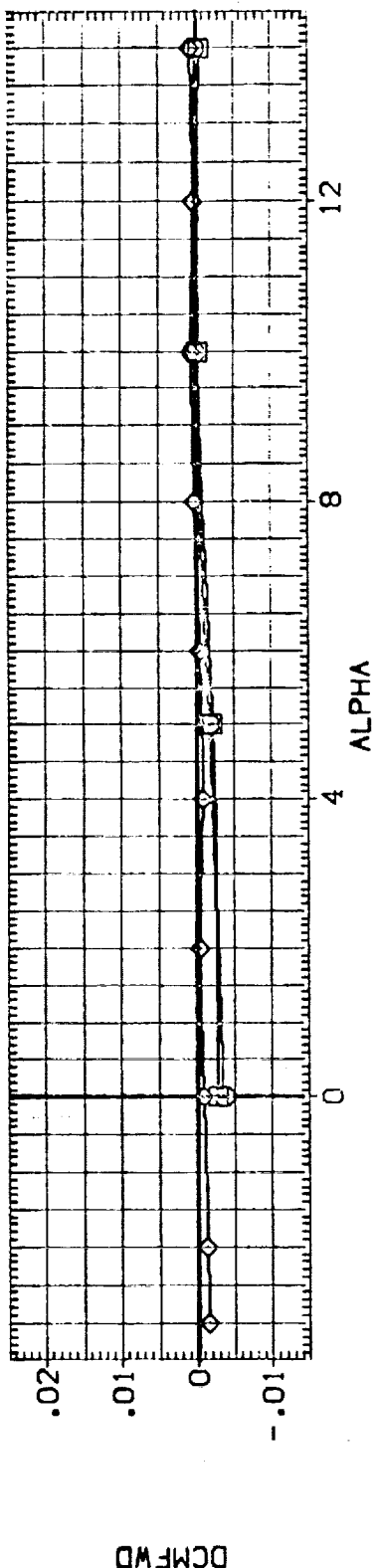


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(JJMACH = 2.00



DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASH DA11A-(RS VB)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 DASH DA11A-(N24 RS VB)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASH DA11A-(RS VB)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

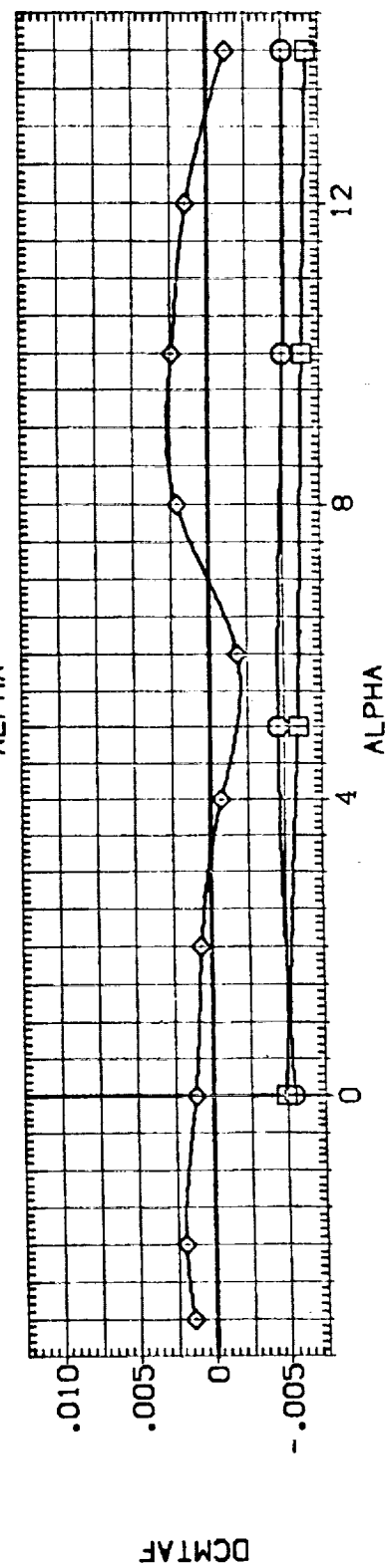
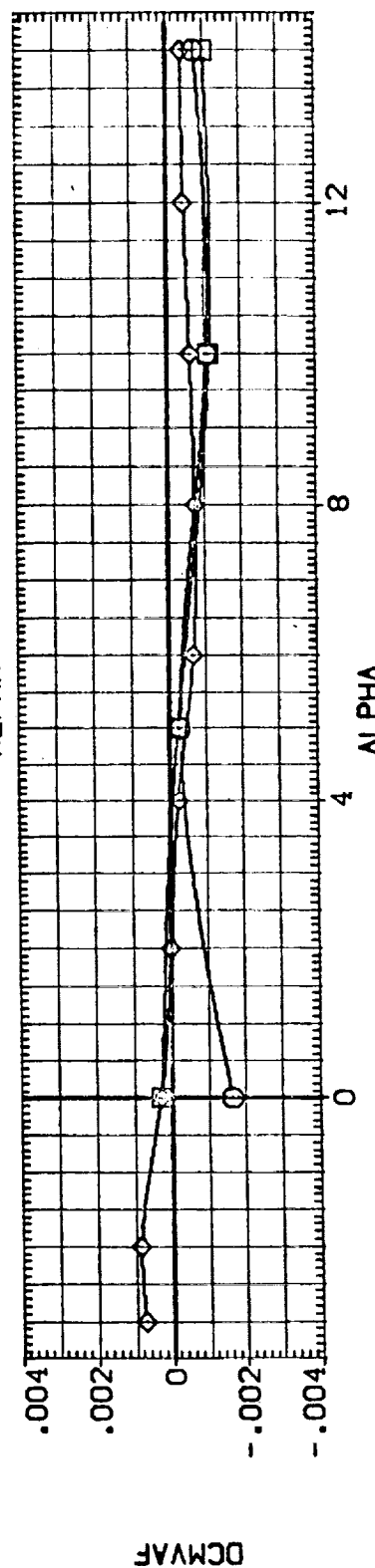
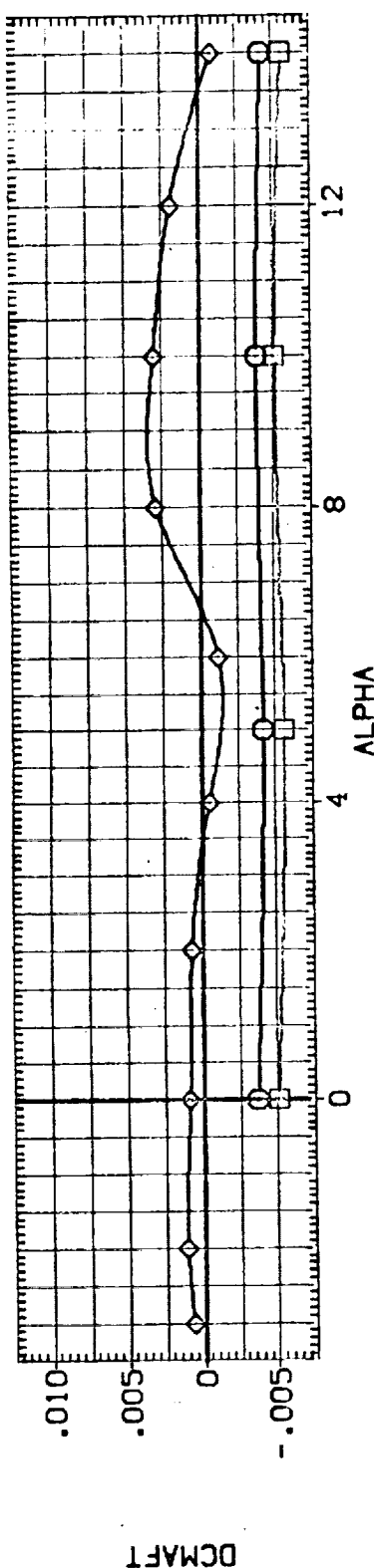


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DAS9 DAI1A-(RS V8)+STRUT  
 (VER009) DATA NOT AVAILABLE  
 (VER013) ARC 66-709 DAS9 DAI1A-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

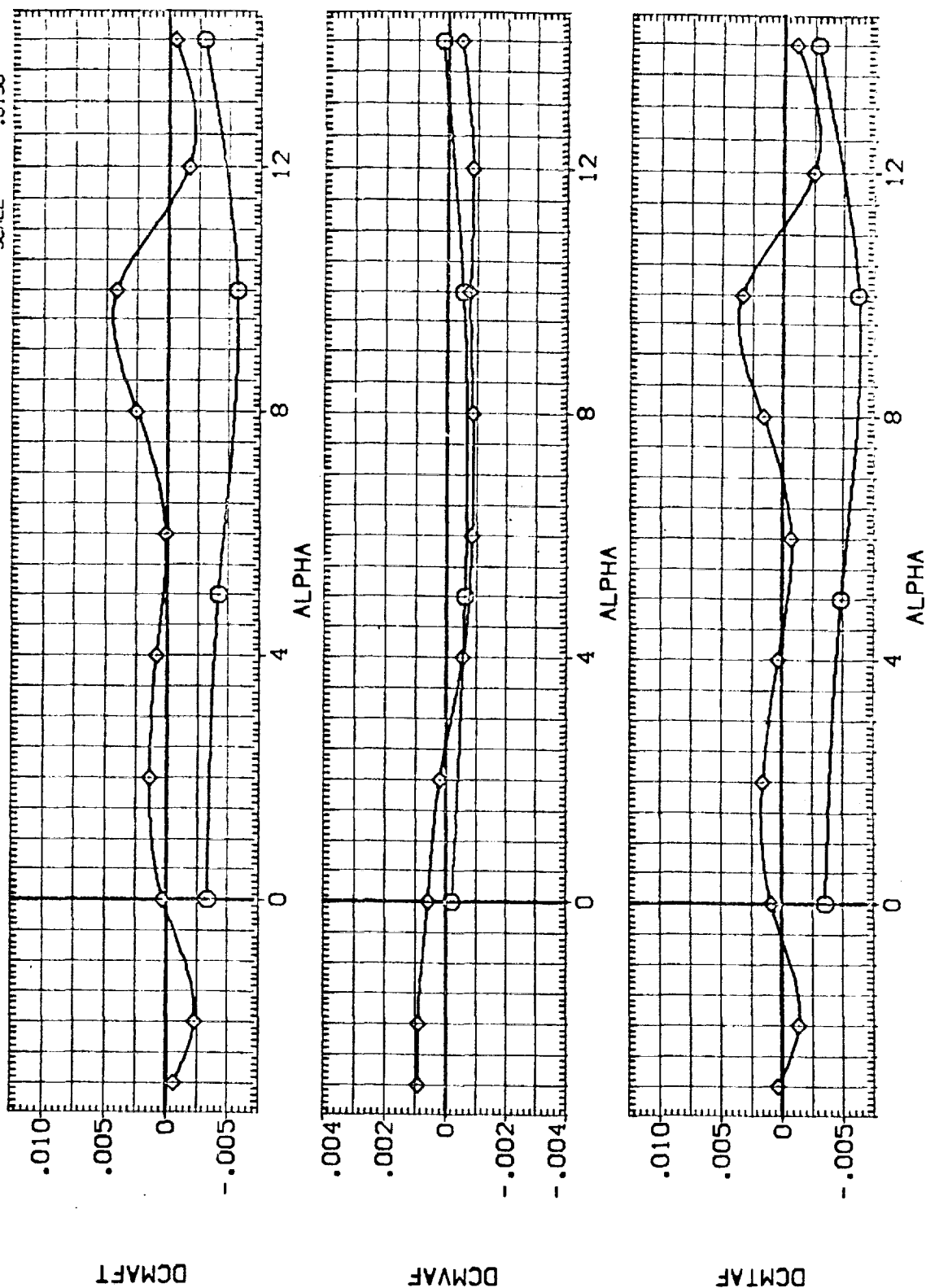


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 {VER012} ARC 66-709 0A59 0A11A--(RS V8)--STRUT  
 {VER009} DATA NOT AVAILABLE  
 {VER013} DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

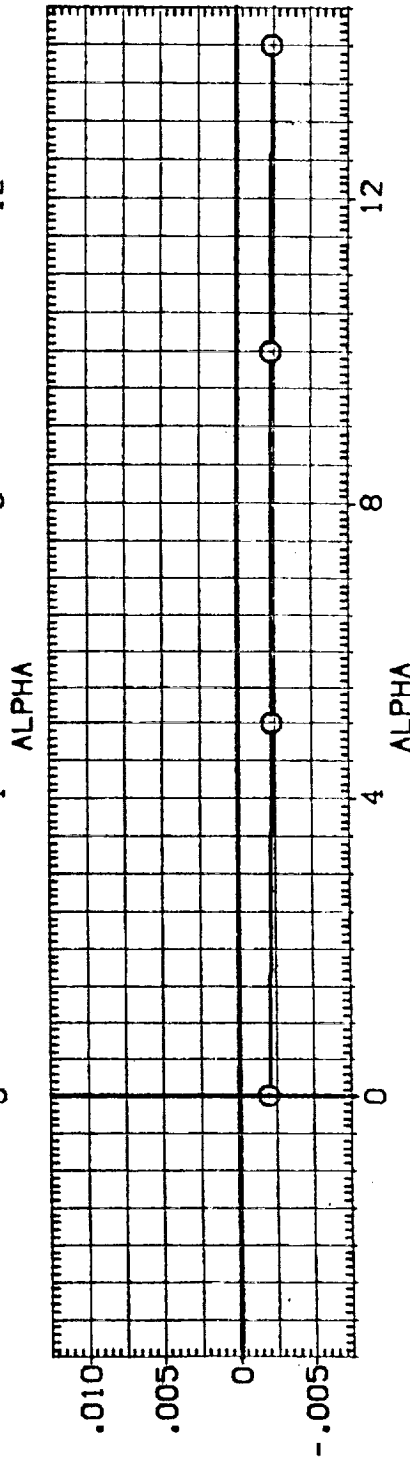
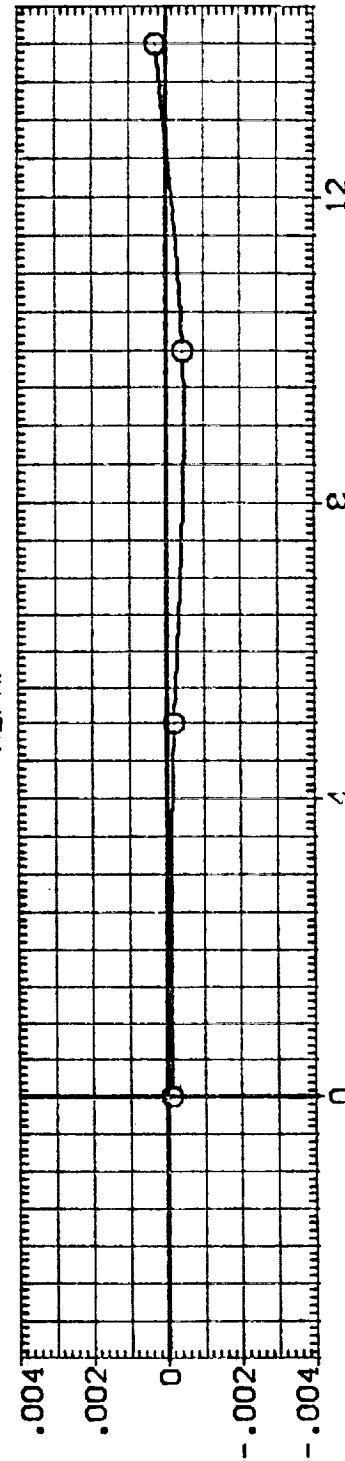
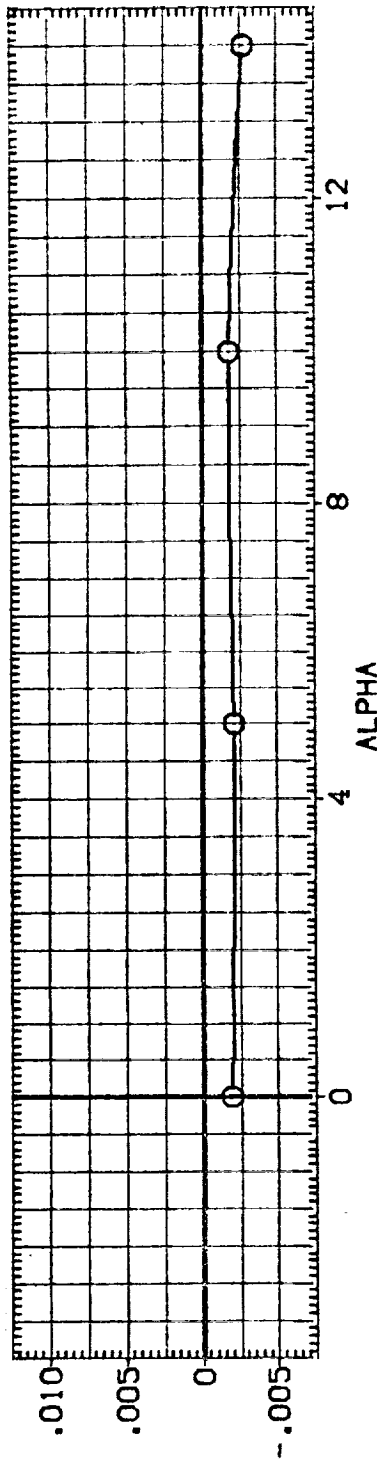


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(CJMACH = .75

DATA SET SYMBOL: (VER012) (VER009) (VER013)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 DA59 DA11A-(RS V8)+STRUT  
 ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT  
 ARC 66-709 DA59 DA11A-(RS V8)+STRUT

BETA: .000 .000 .000  
 ELEVON: .000 .000 15.000  
 BOFLAP: -11.700 -11.700 -11.700

REFERENCE INFORMATION:  
 SREF: .6053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

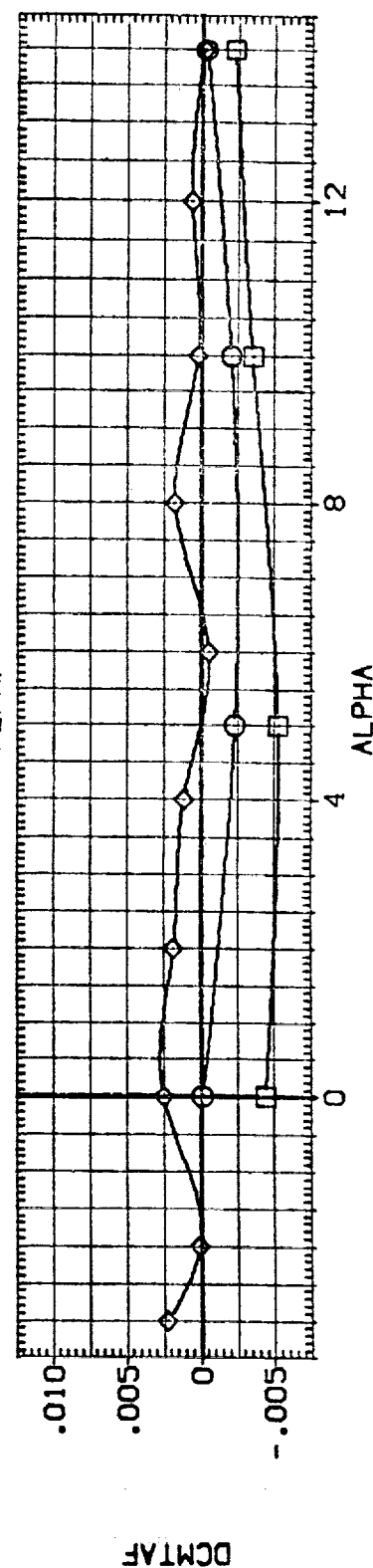
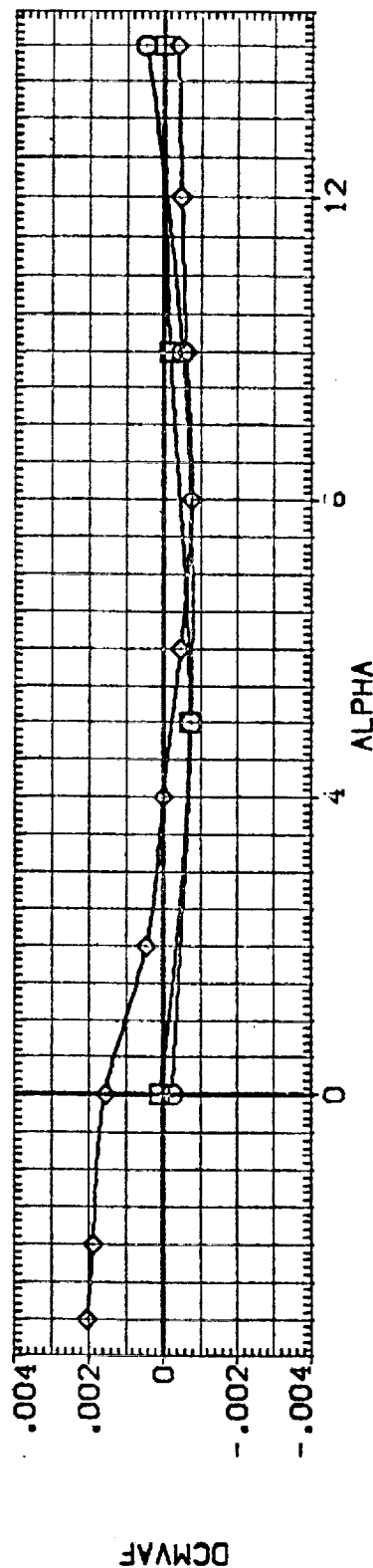
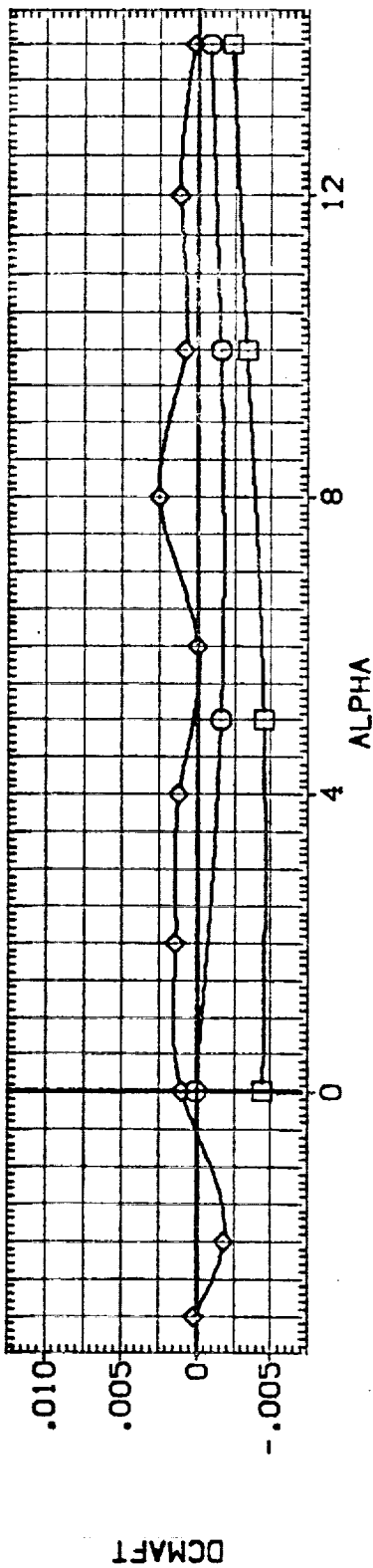


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

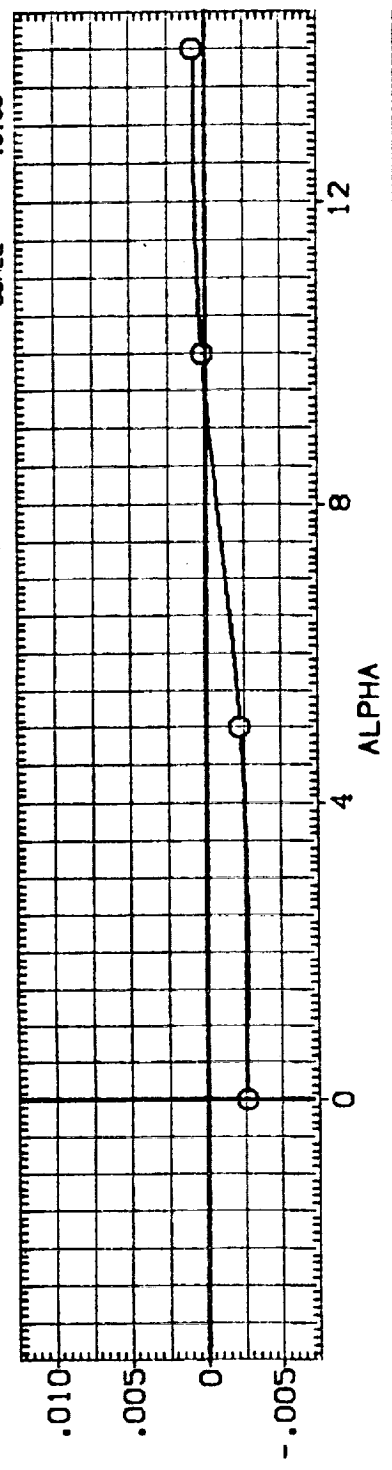
(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 {VER012} ARC 66-709 QAS9 CA11A-(RS-V8)+STRUT  
 {VER009} DATA NOT AVAILABLE  
 {VER013} DATA NOT AVAILABLE

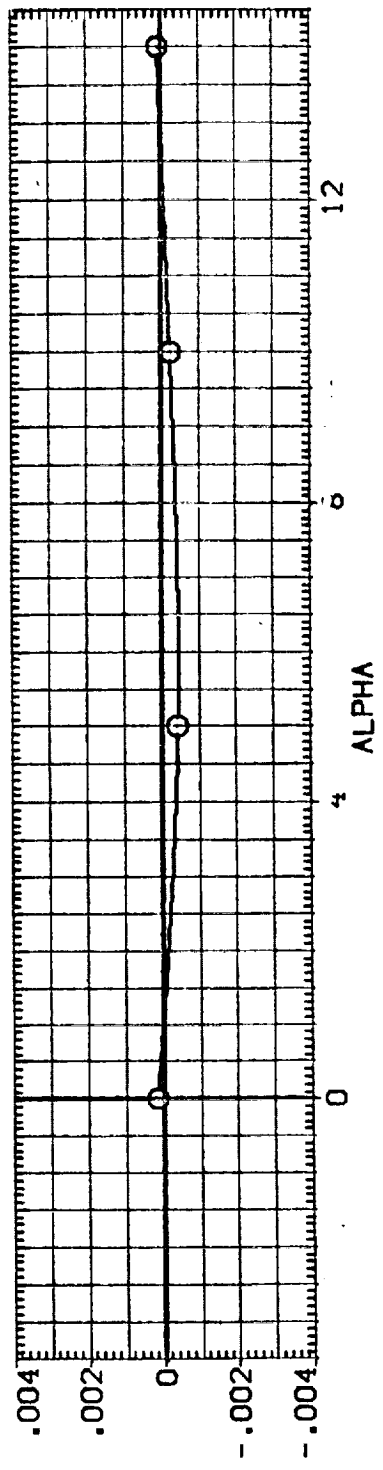
BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

DCMFT



DCMVAF



DCMTAF

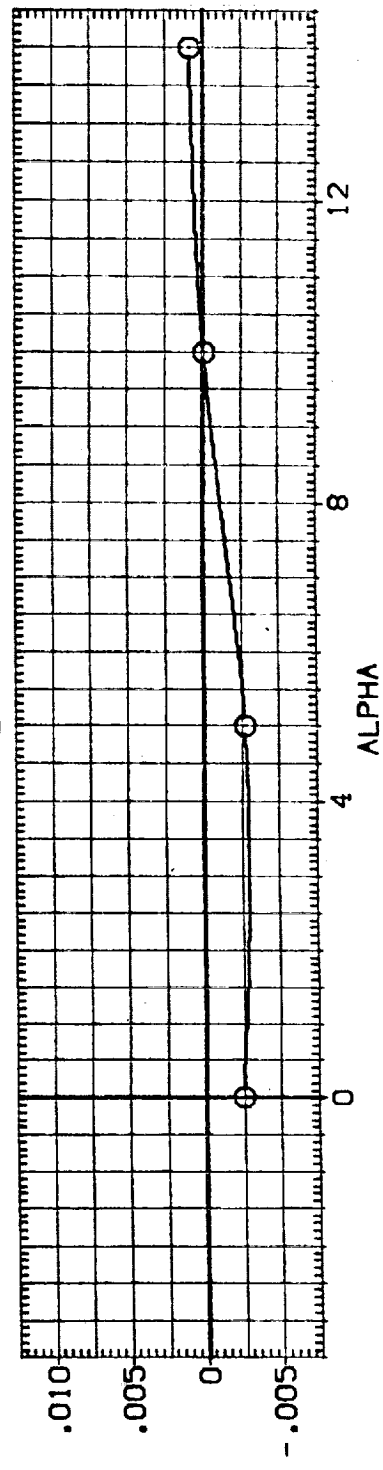


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

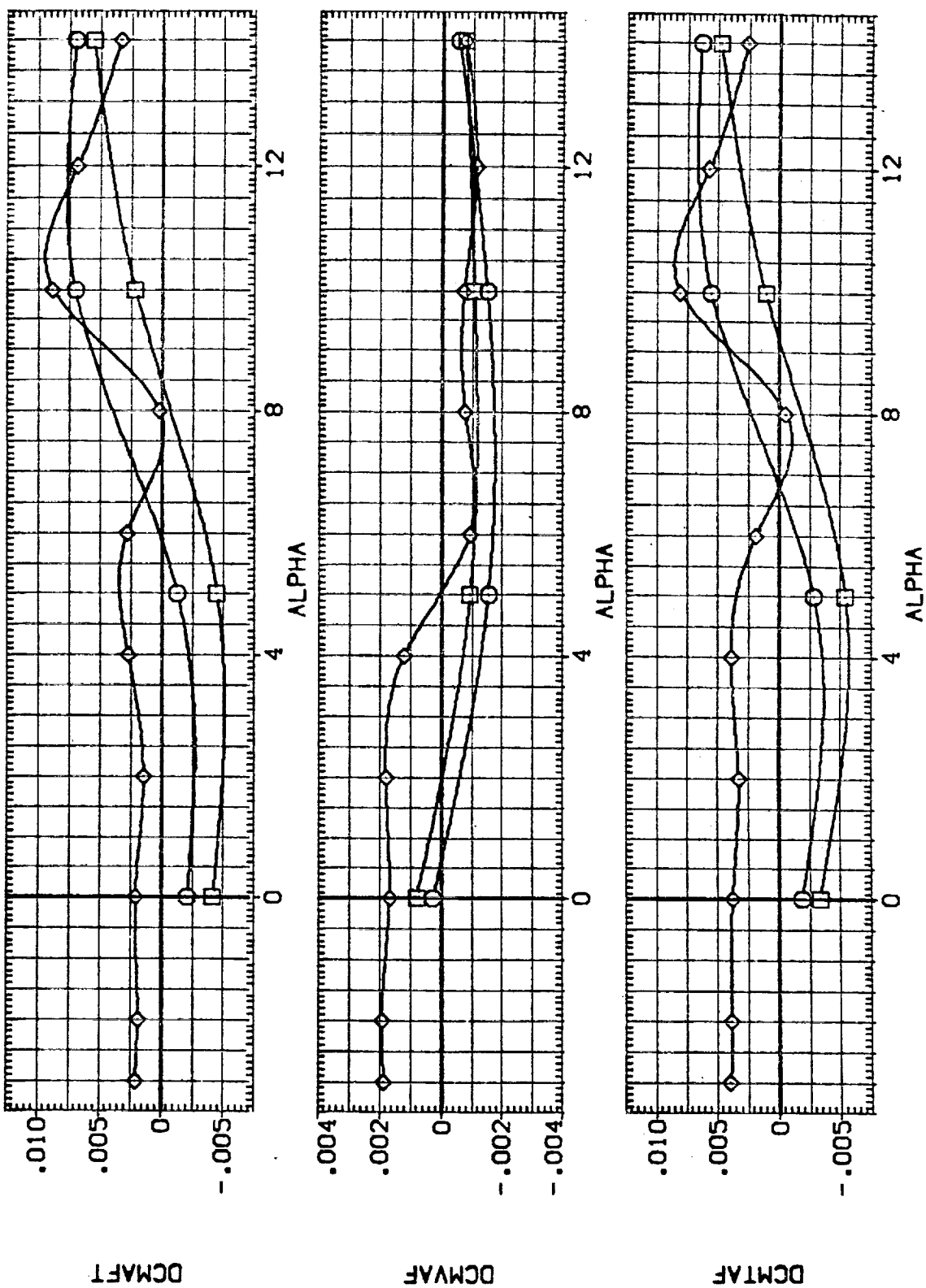


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL: (VER012)  
 (VER009)  
 (VER013)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 OAS9 0A11A-(RS V81)-STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 80FLAP: -11.700  
 .000  
 .000  
 15.000  
 -11.700

REFERENCE INFORMATION:  
 SREF: .6053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 IN.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

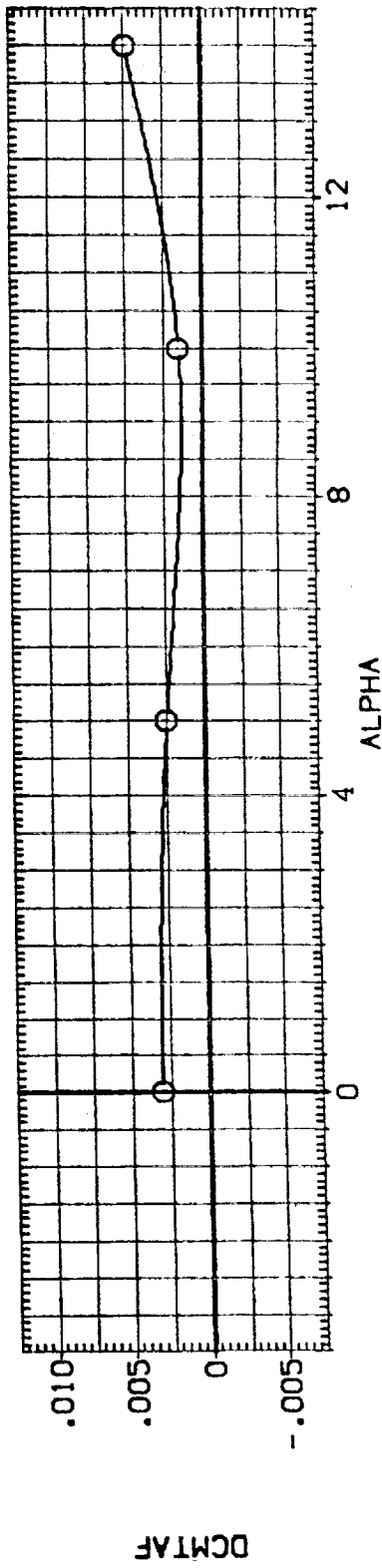
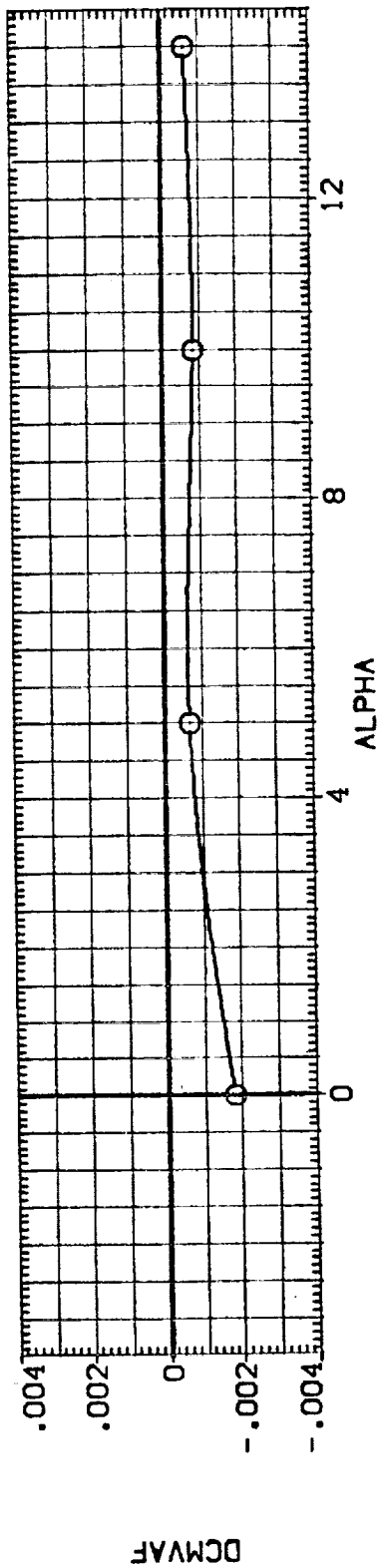
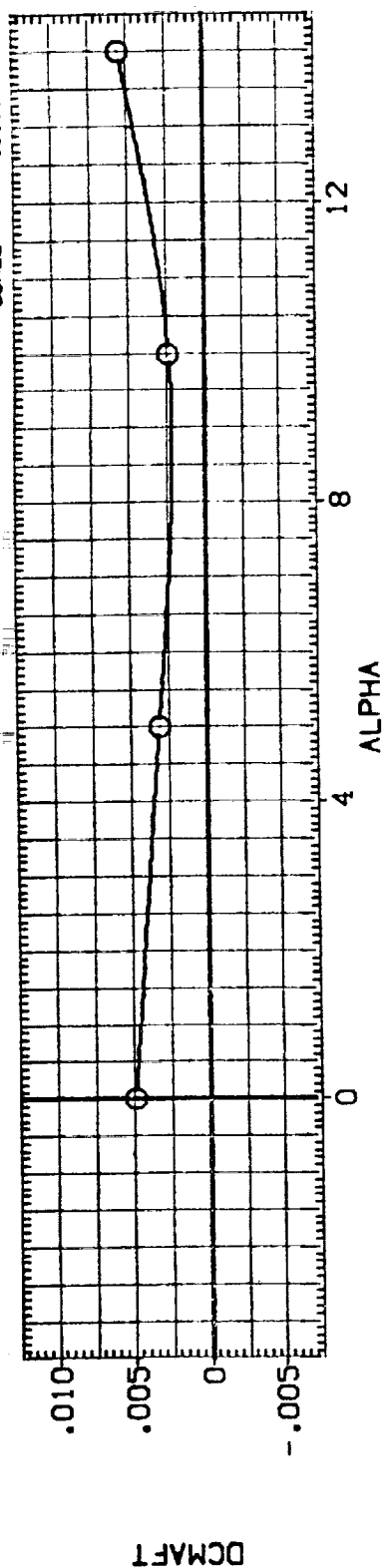


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

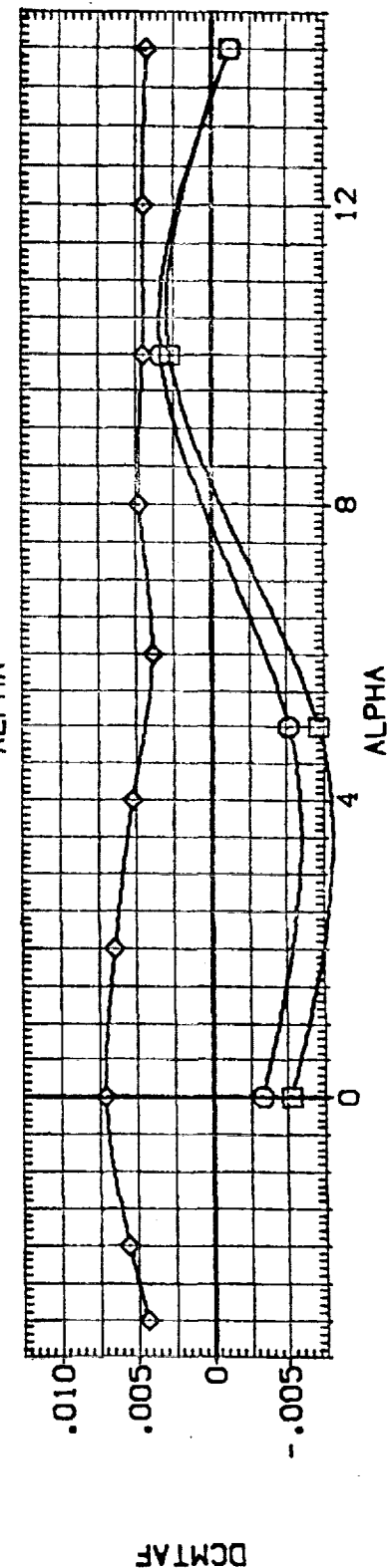
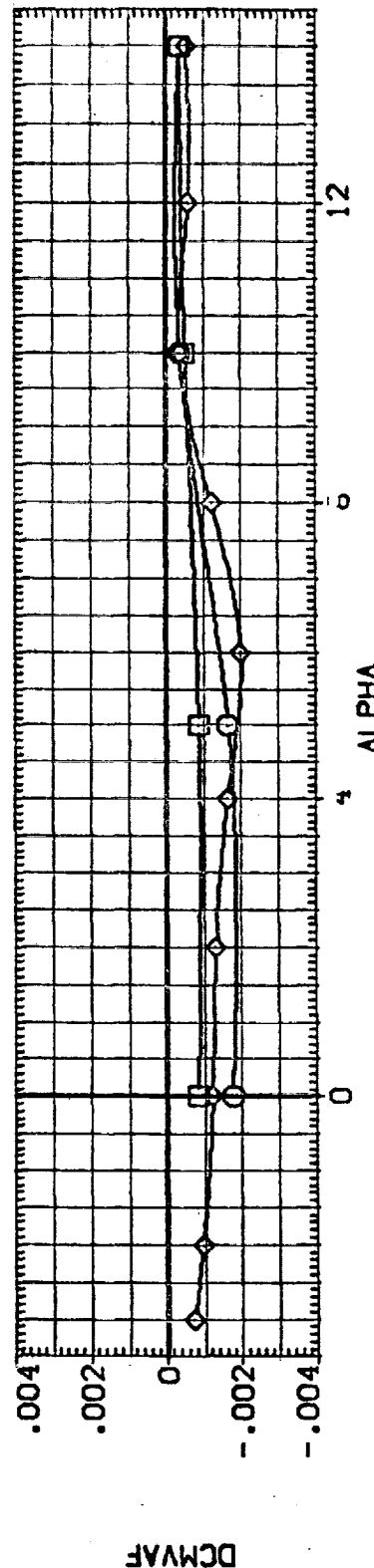
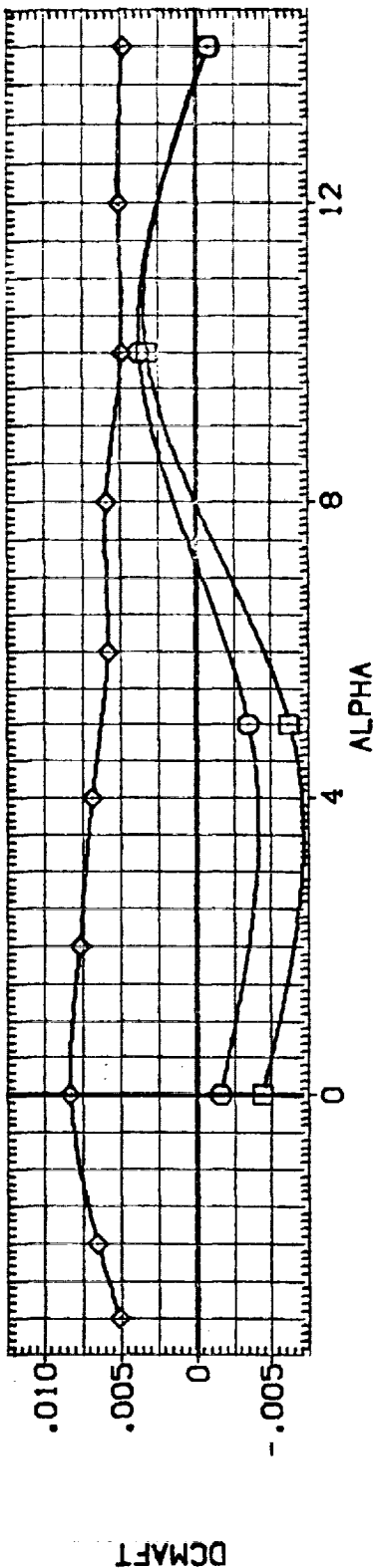


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(H)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{VER003}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{VER013}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

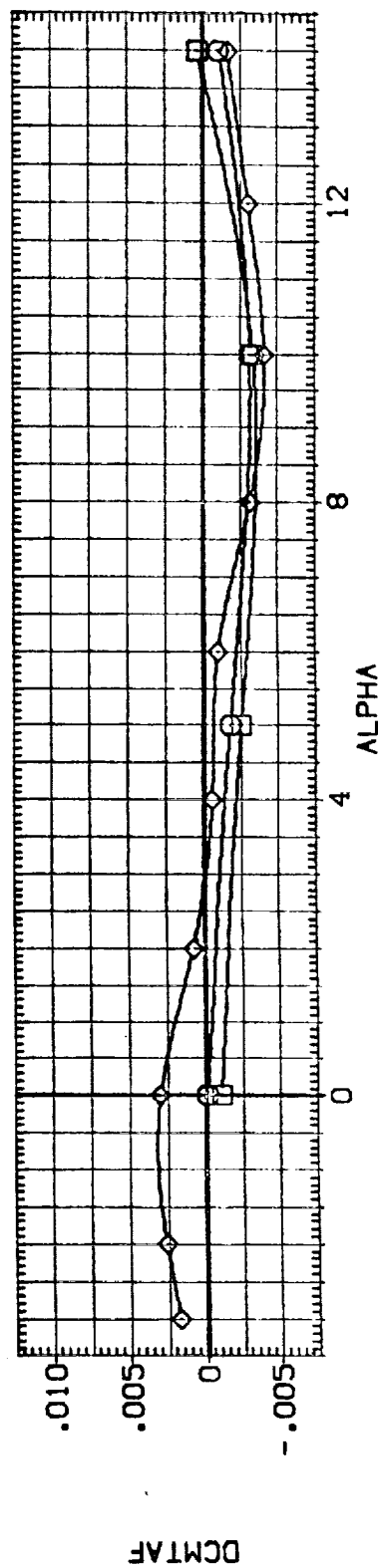
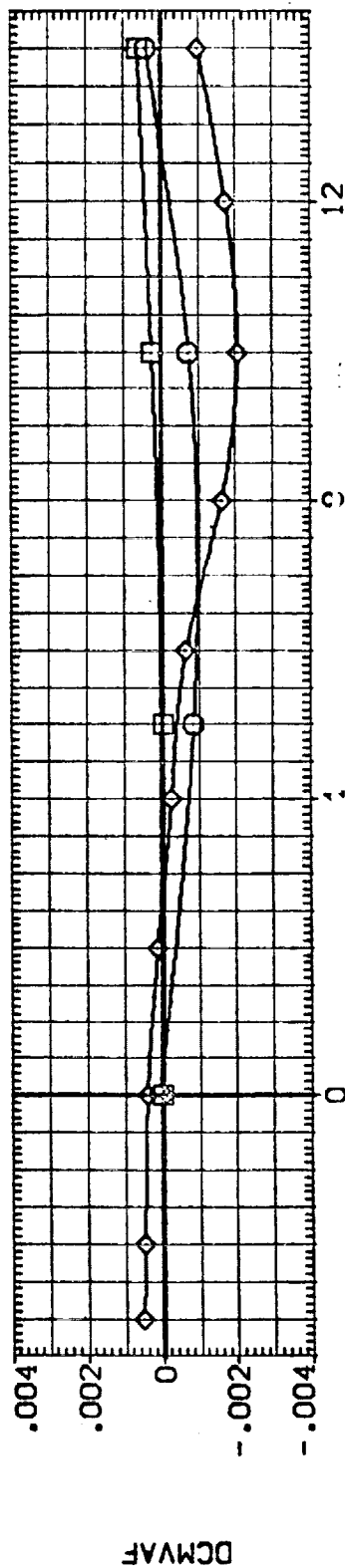
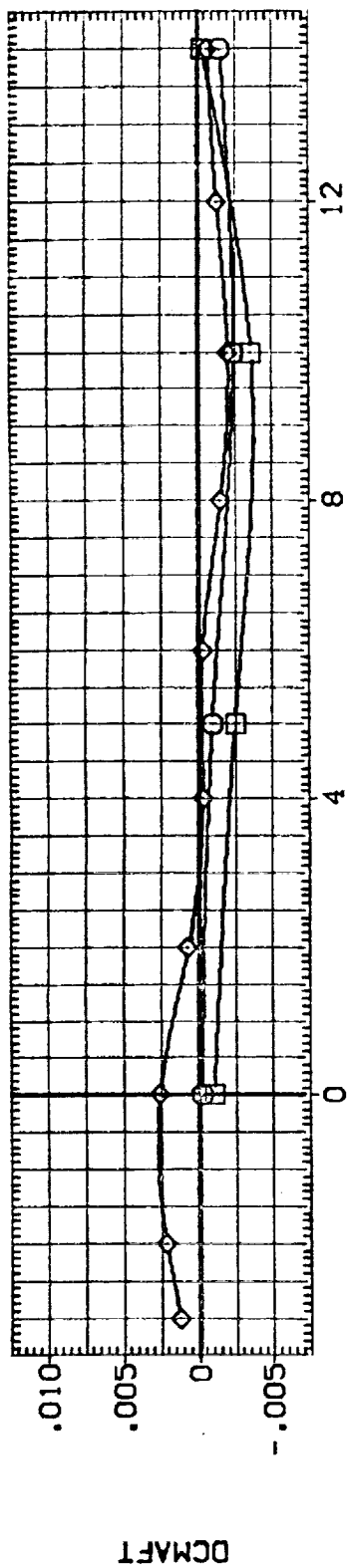


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

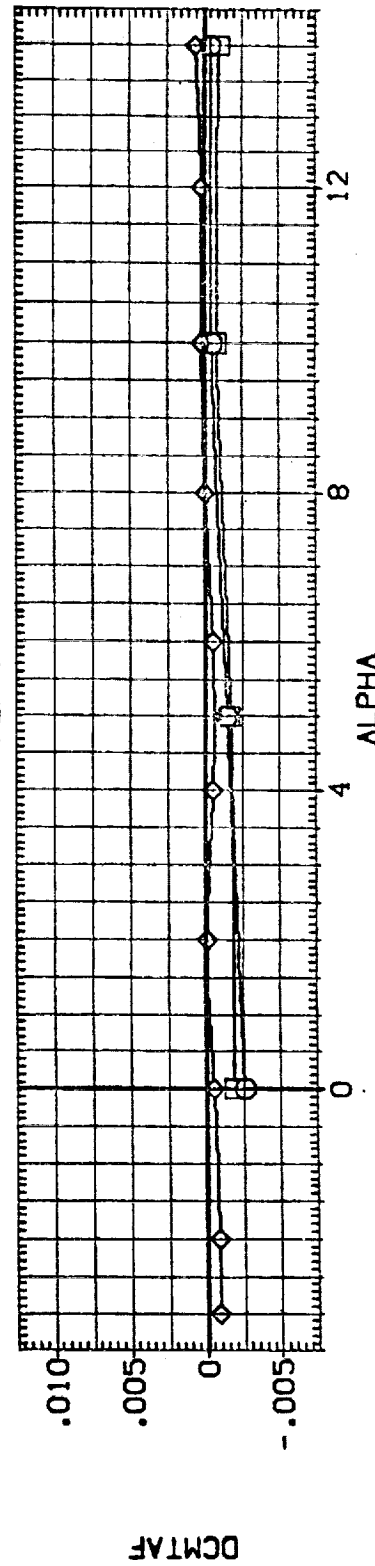
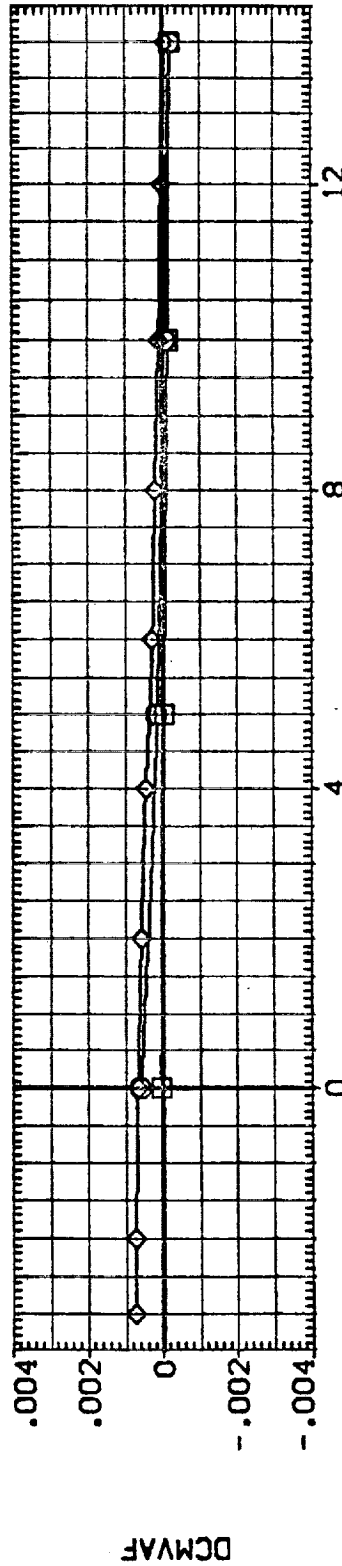
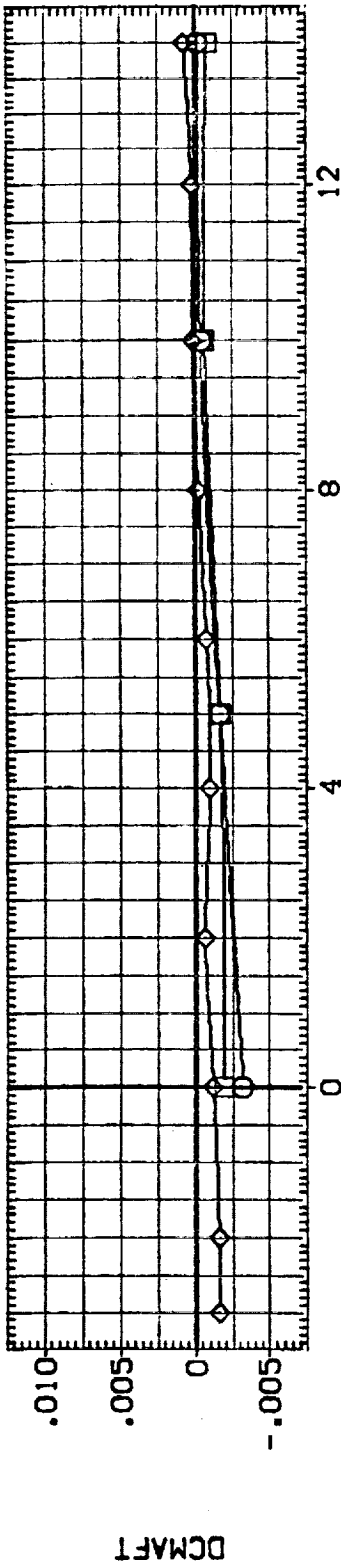


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAI1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER008)	ARC 66-709 QAS9 QAI1A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 QAI1A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

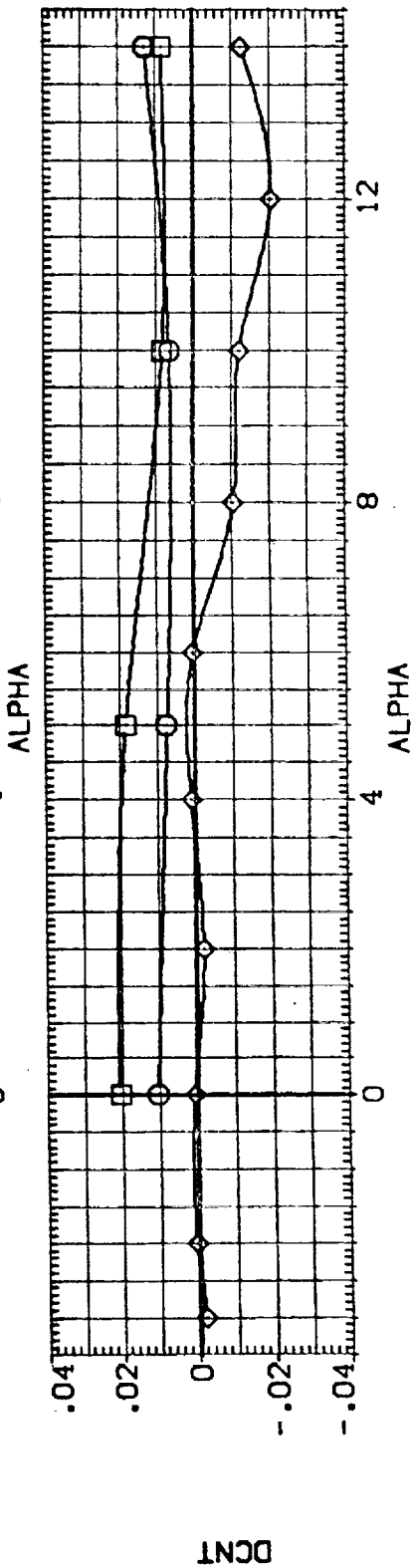
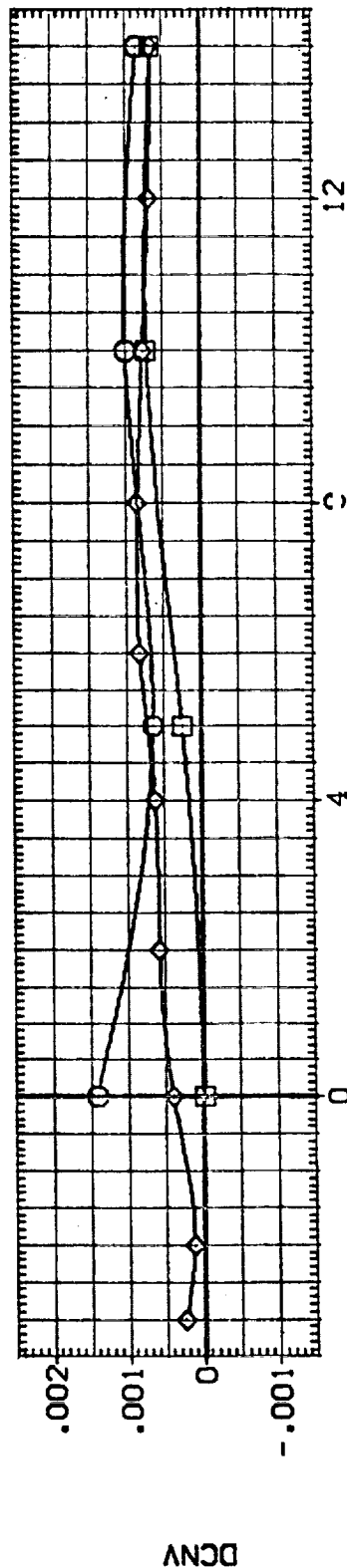
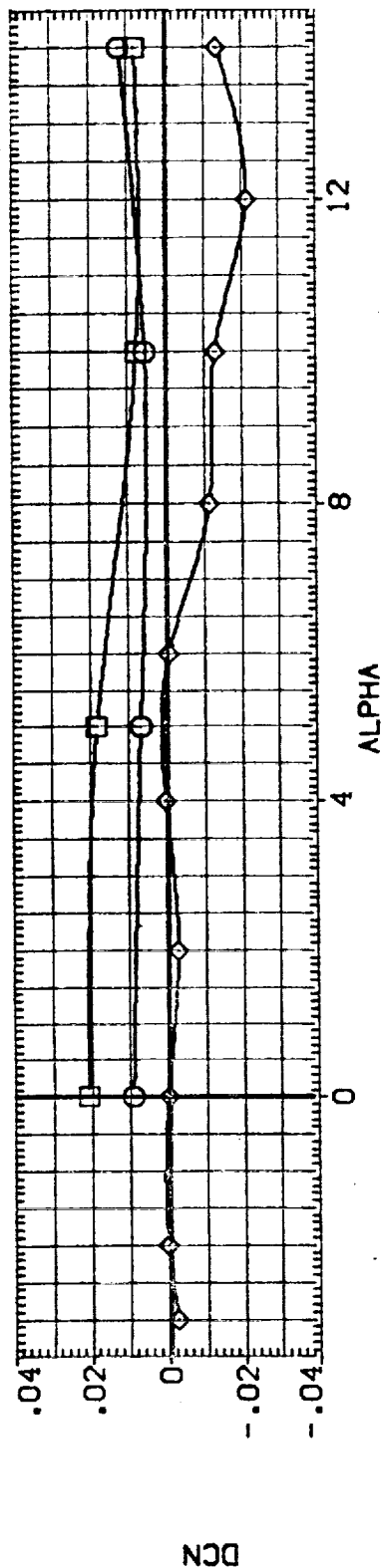


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(A)MACH = .60

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
YMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

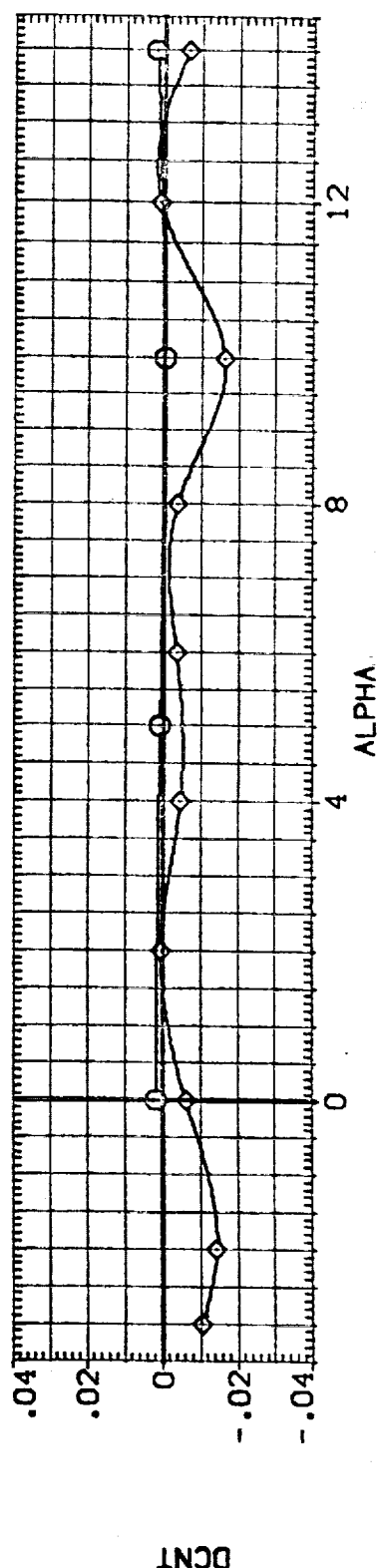
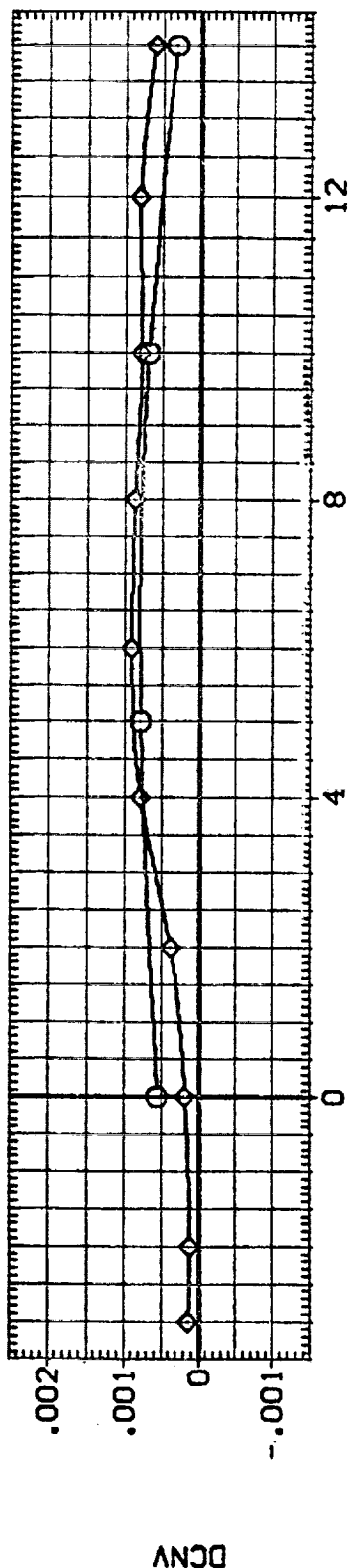
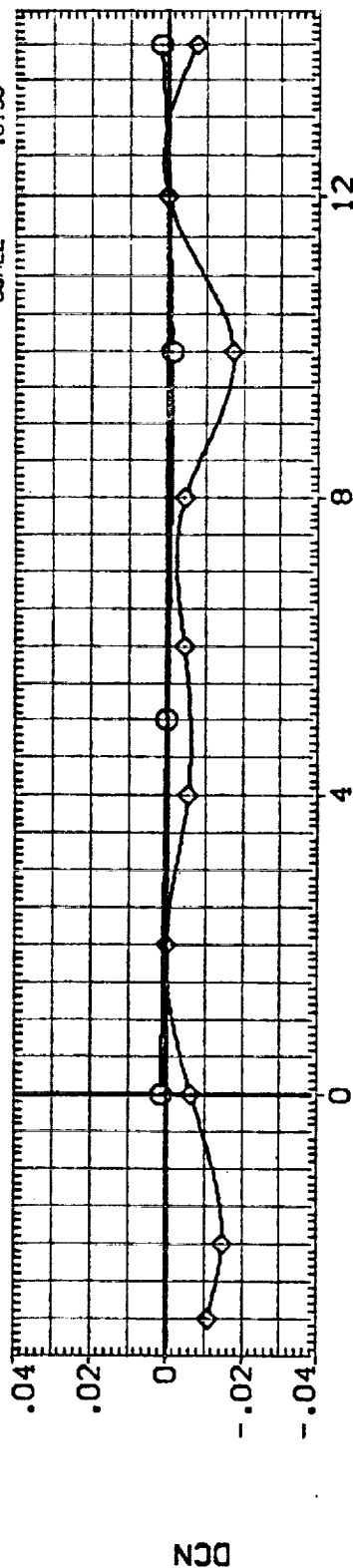


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

$$(8) \text{MACH} = .70$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DASS 0A11A-(R5 V8)+STRUT  
 (VER009) DATA NOT AVAILABLE  
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

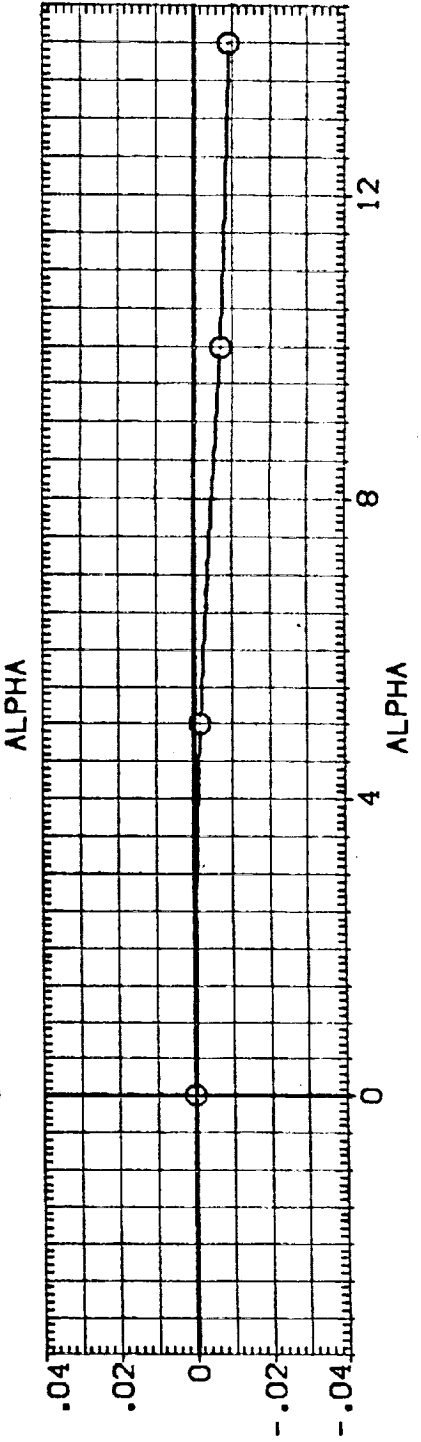
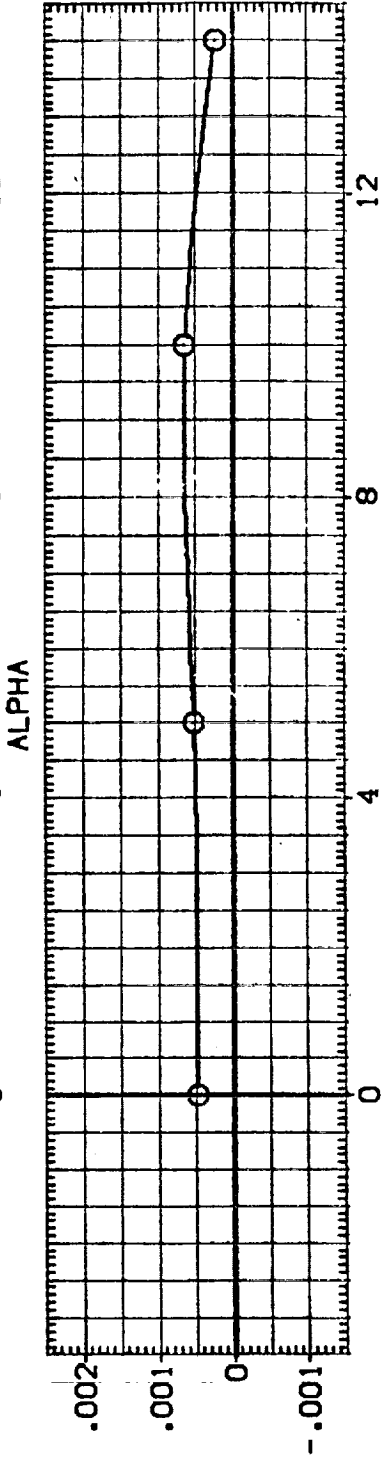
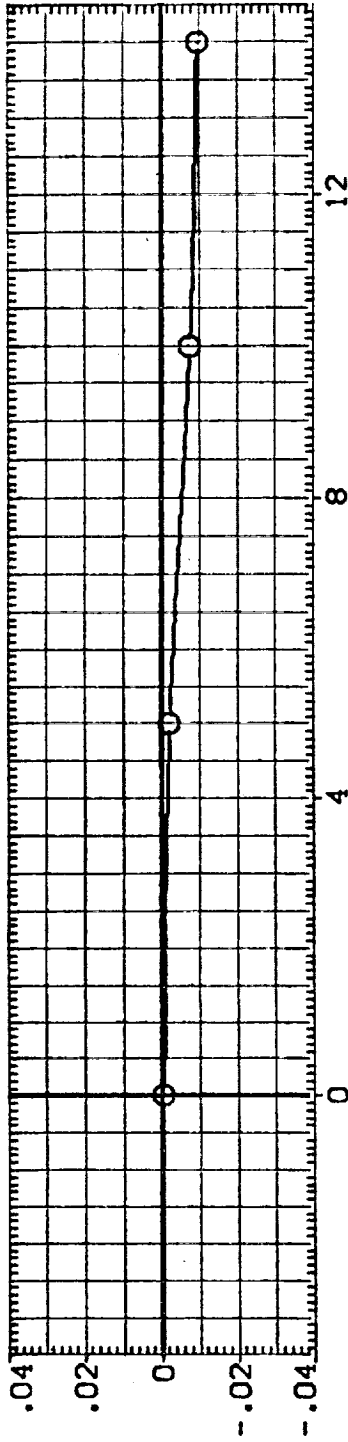


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VERO12}	ARC 66-709 OAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 SQ.FT.
{VERO08}	ARC 66-709 OAS9 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{VERO13}	ARC 66-709 OAS9 CA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

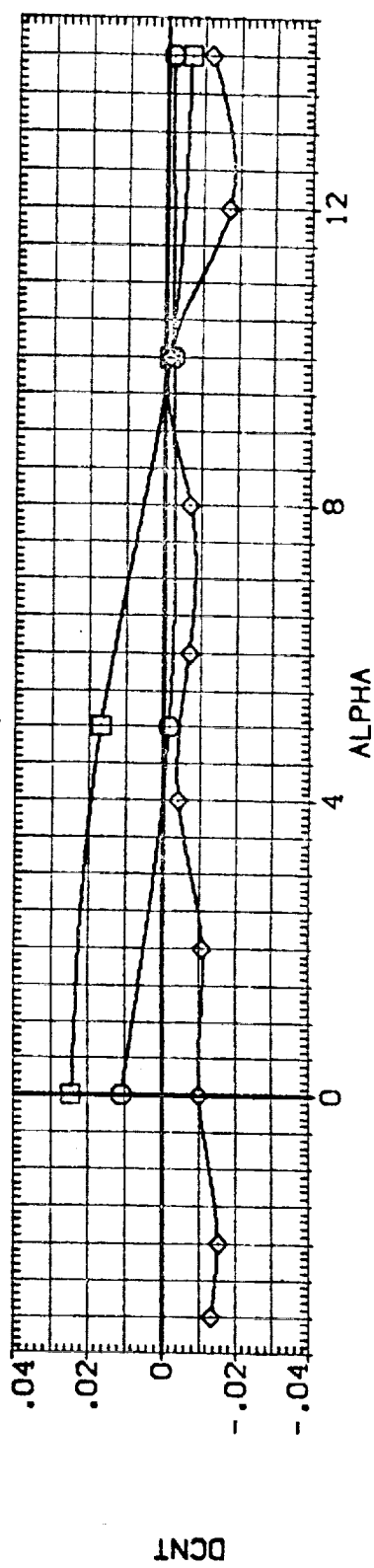
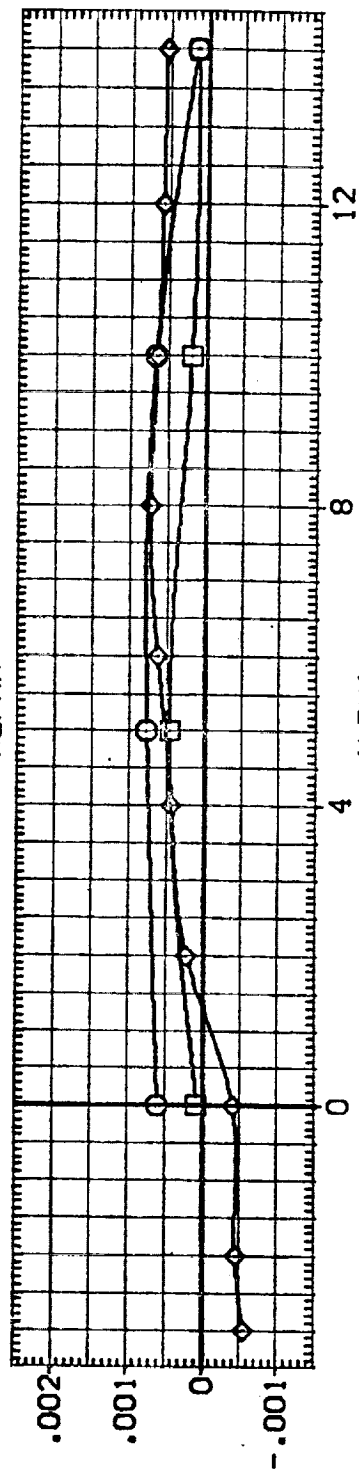
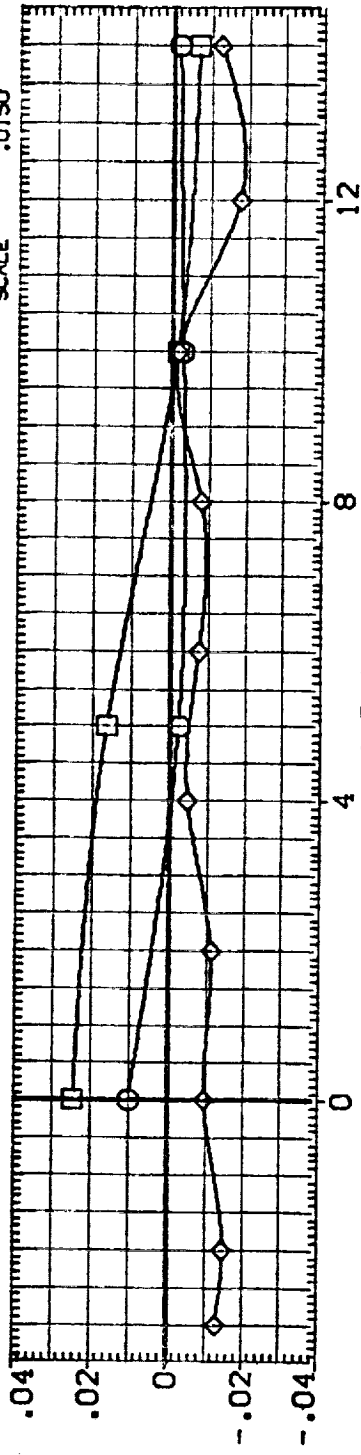


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(O)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(VER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

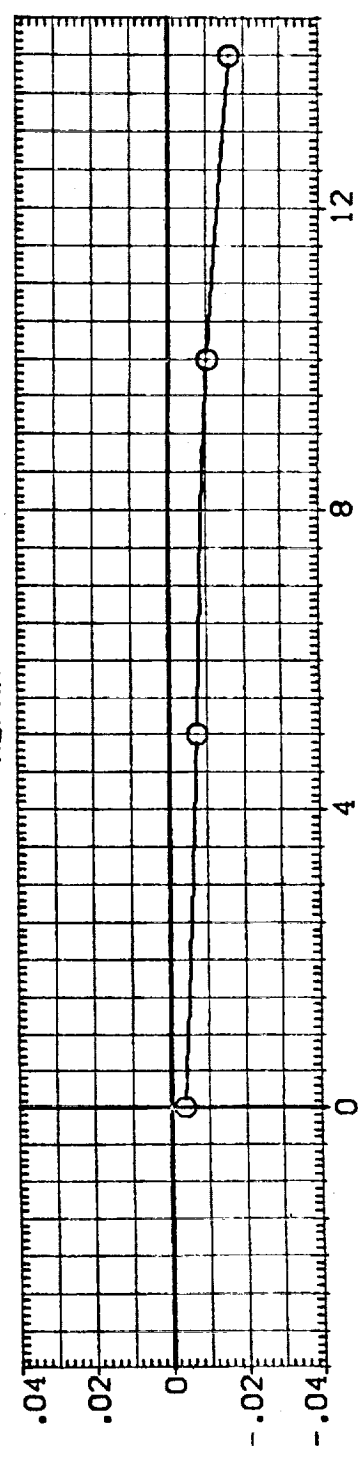
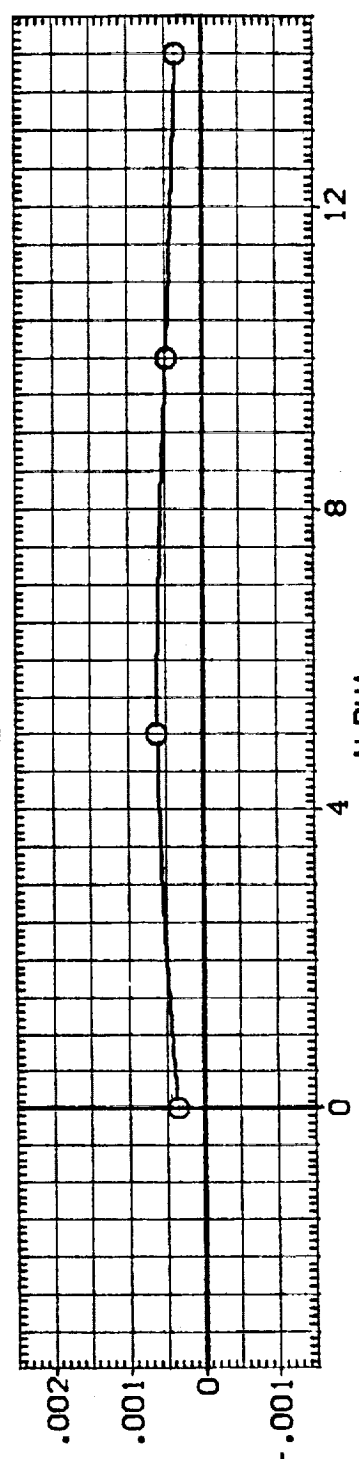
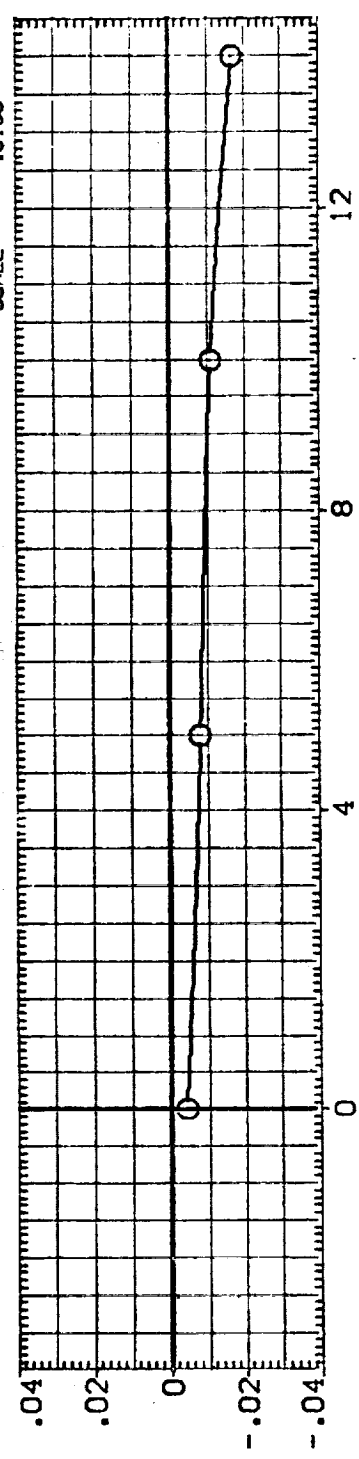


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-709 DASH 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{VER009}	ARC 66-709 DASH 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5535 FT.
{VER013}	ARC 66-709 DASH 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

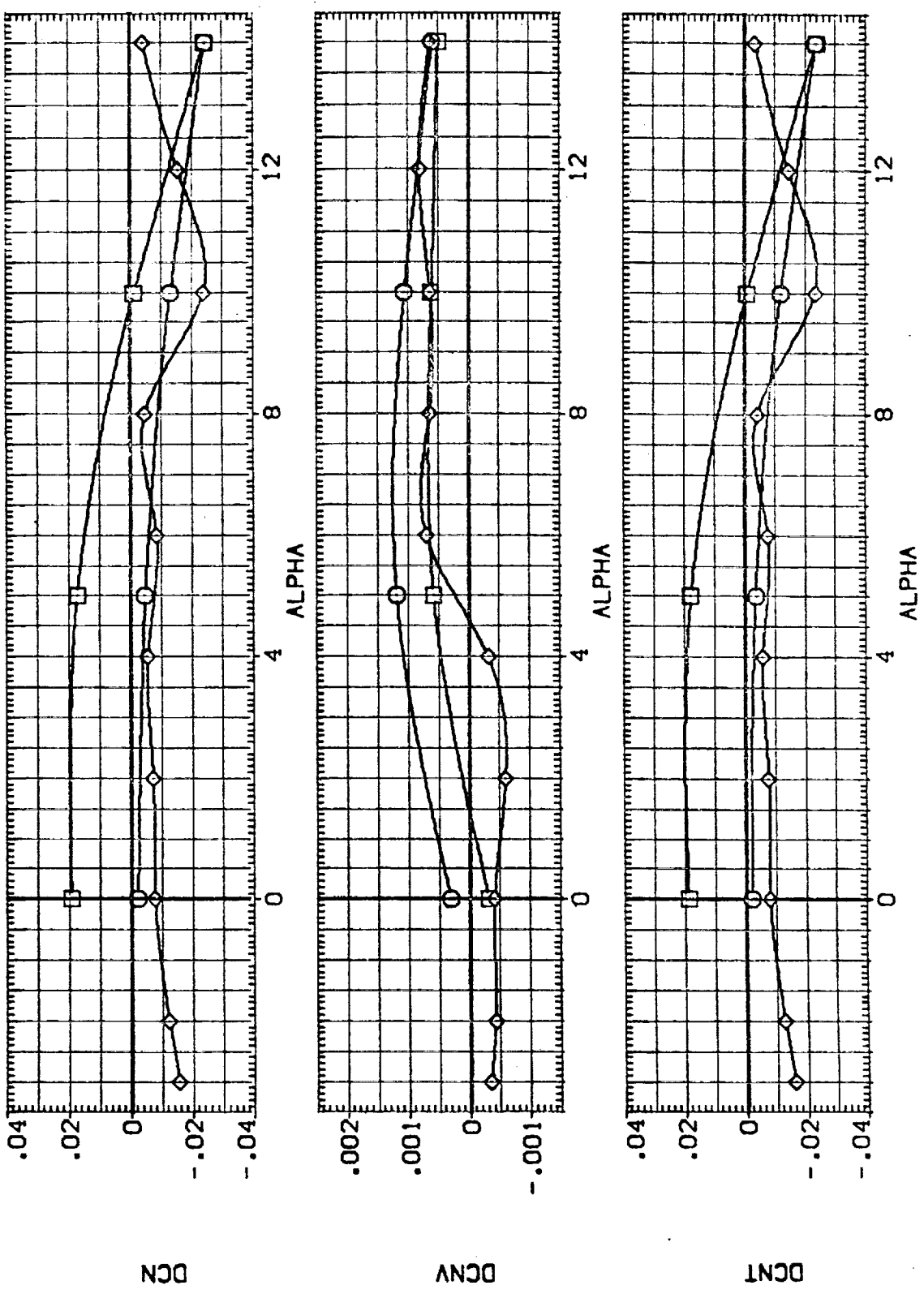


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DASS DALLA- (RS V8)+STRUT  
 (VER009) DATA NOT AVAILABLE  
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

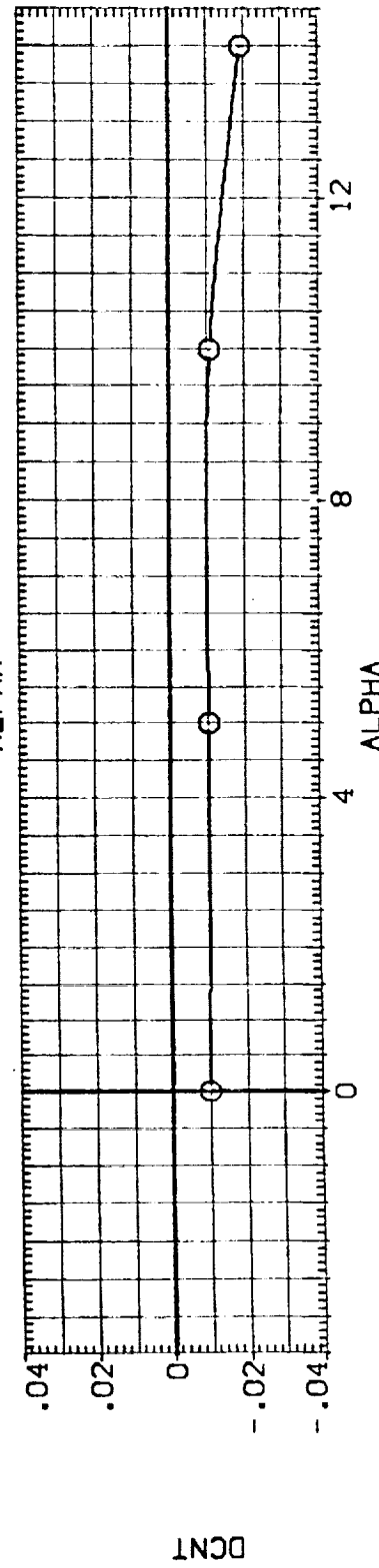
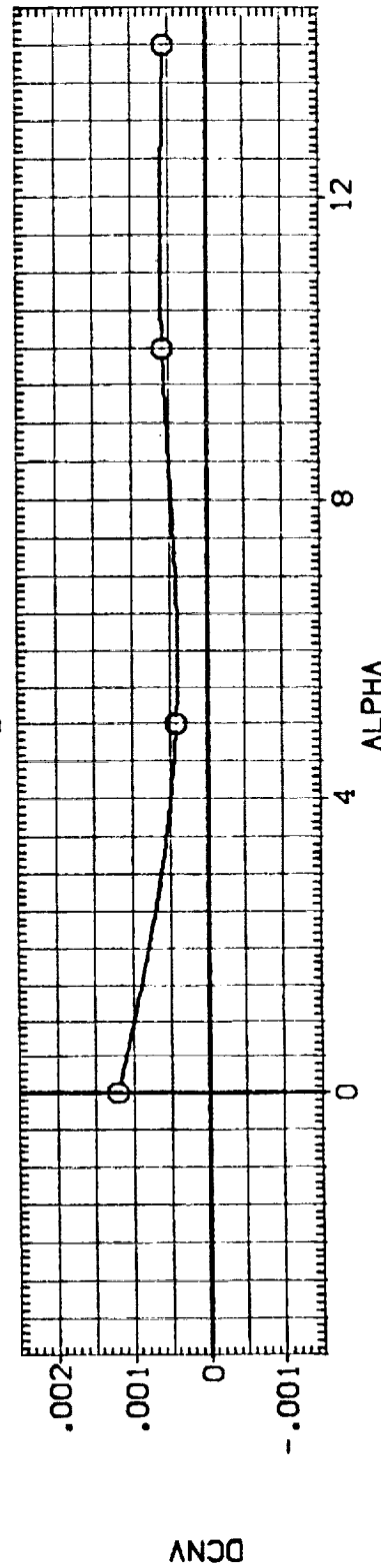
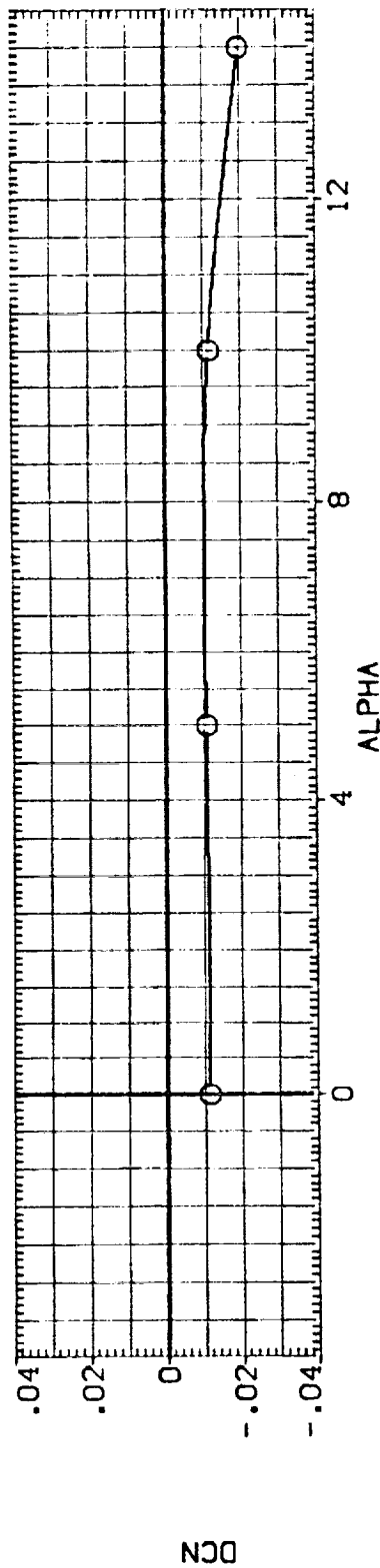


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

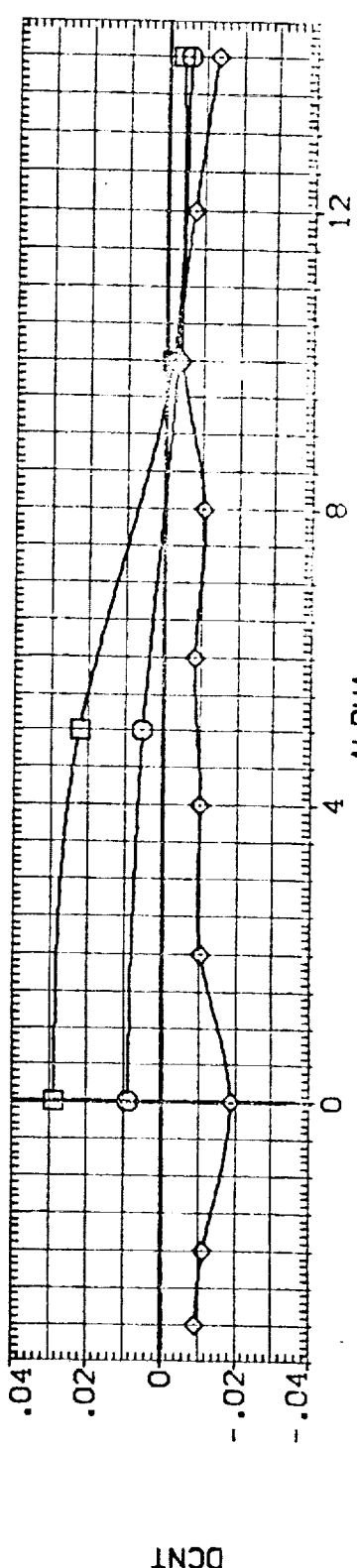
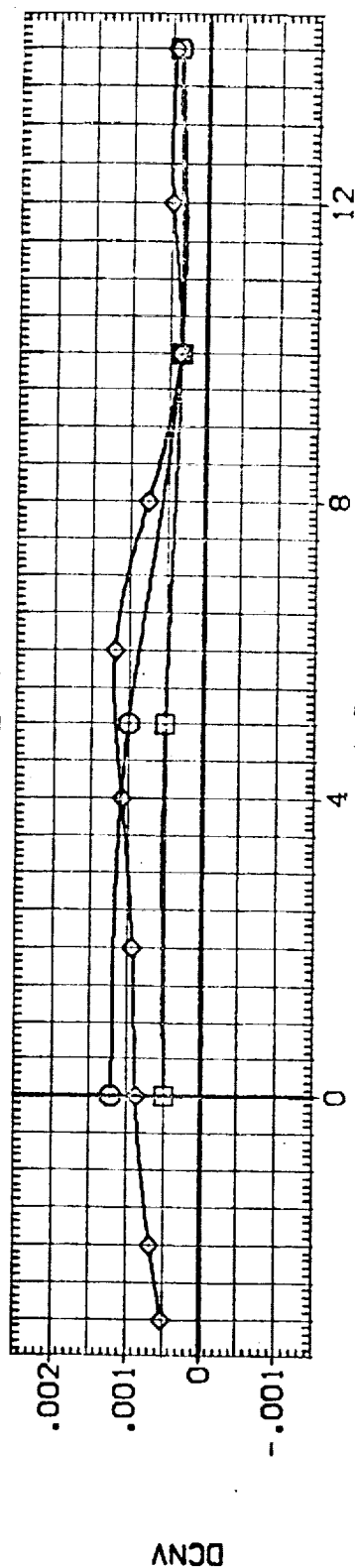
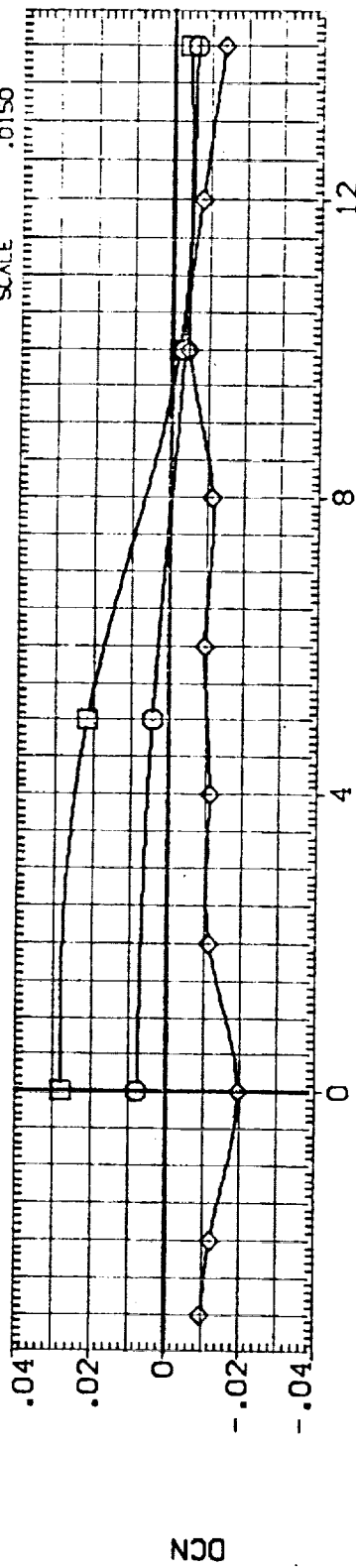


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CHOMACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF 5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

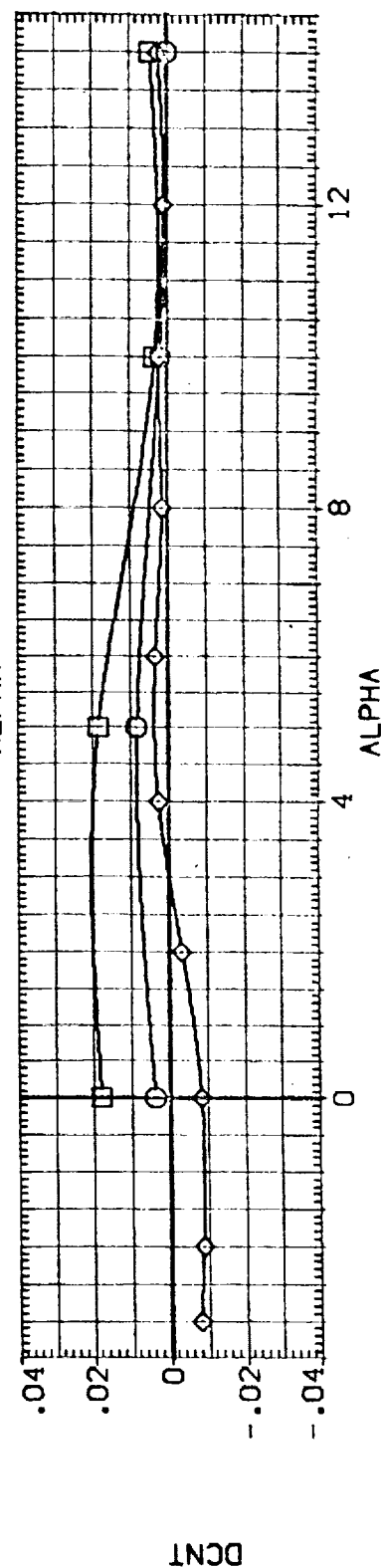
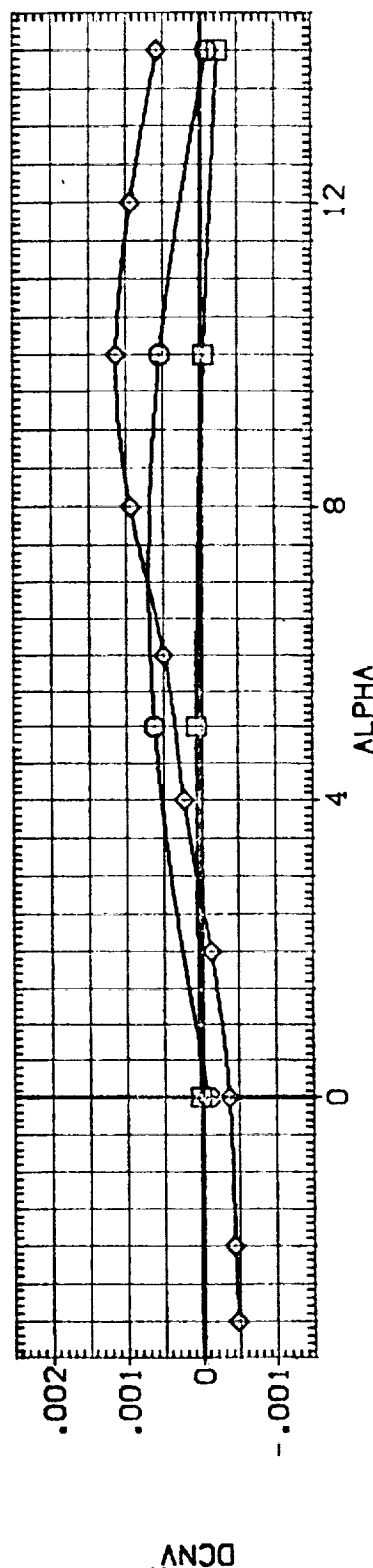
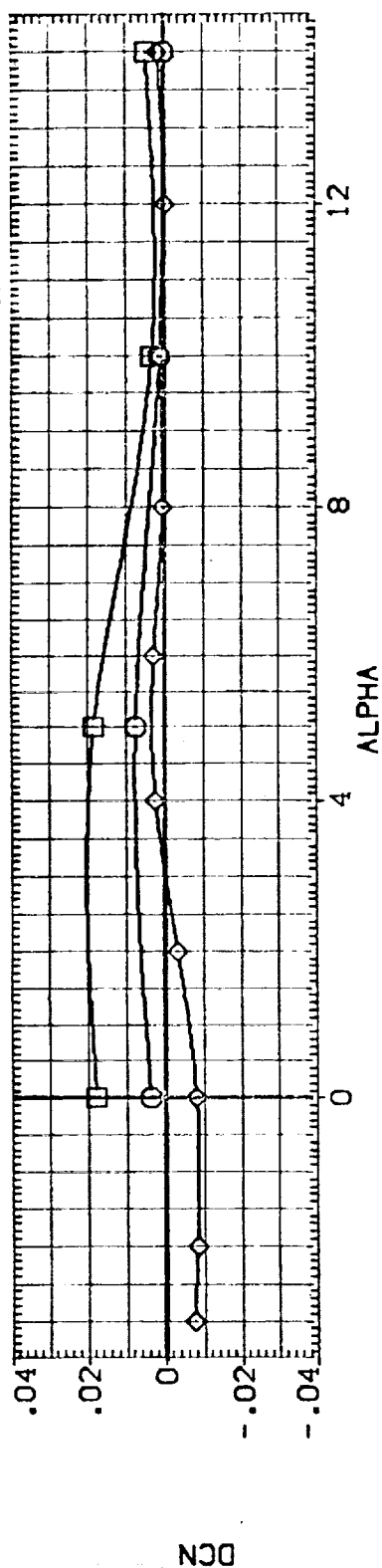


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

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C(I)MACH = 1.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{VER009}	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{VER013}	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

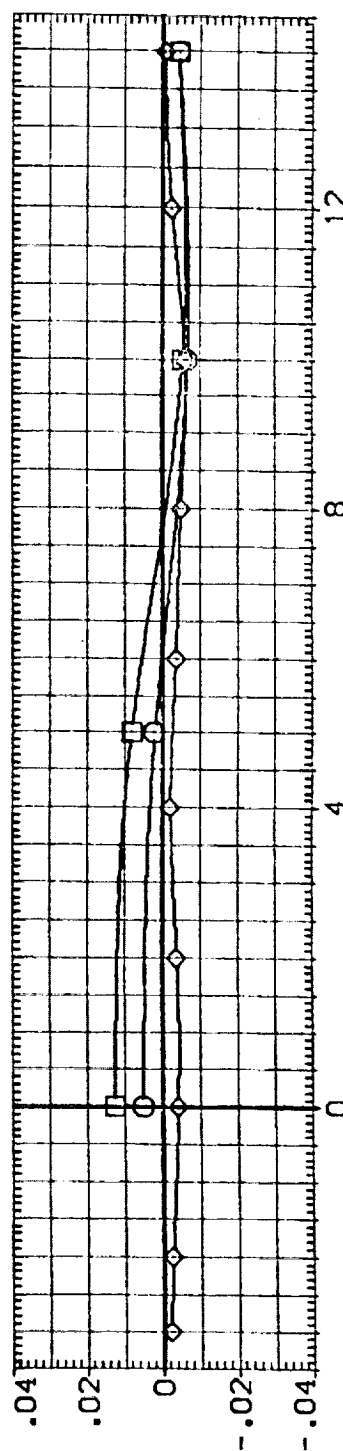
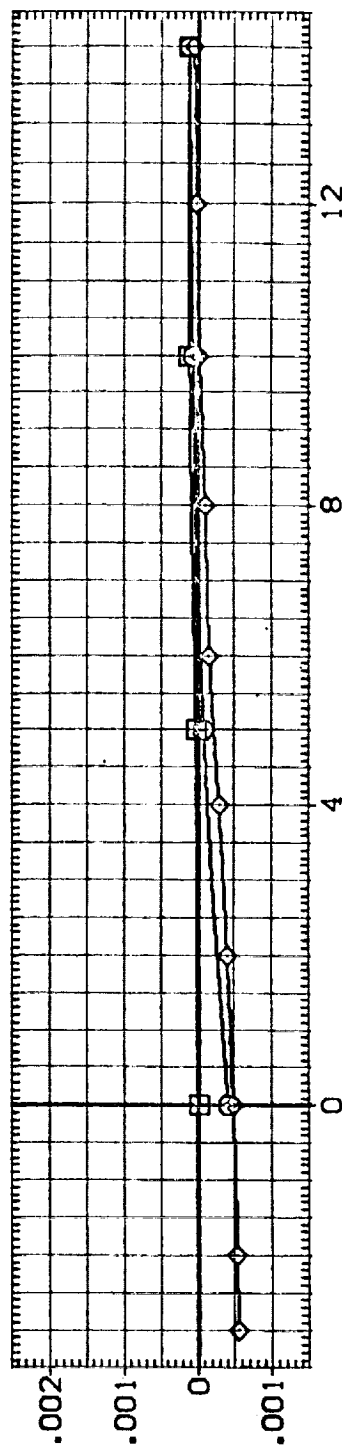
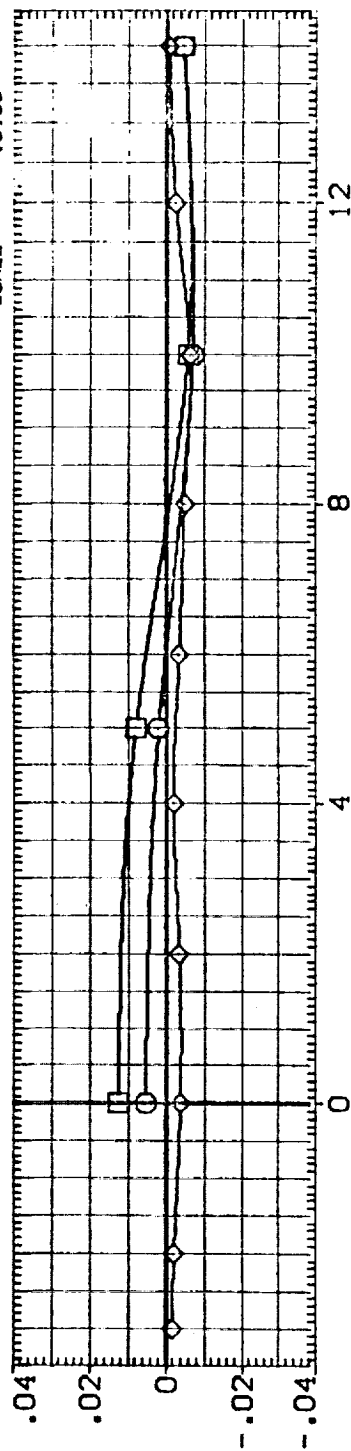


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

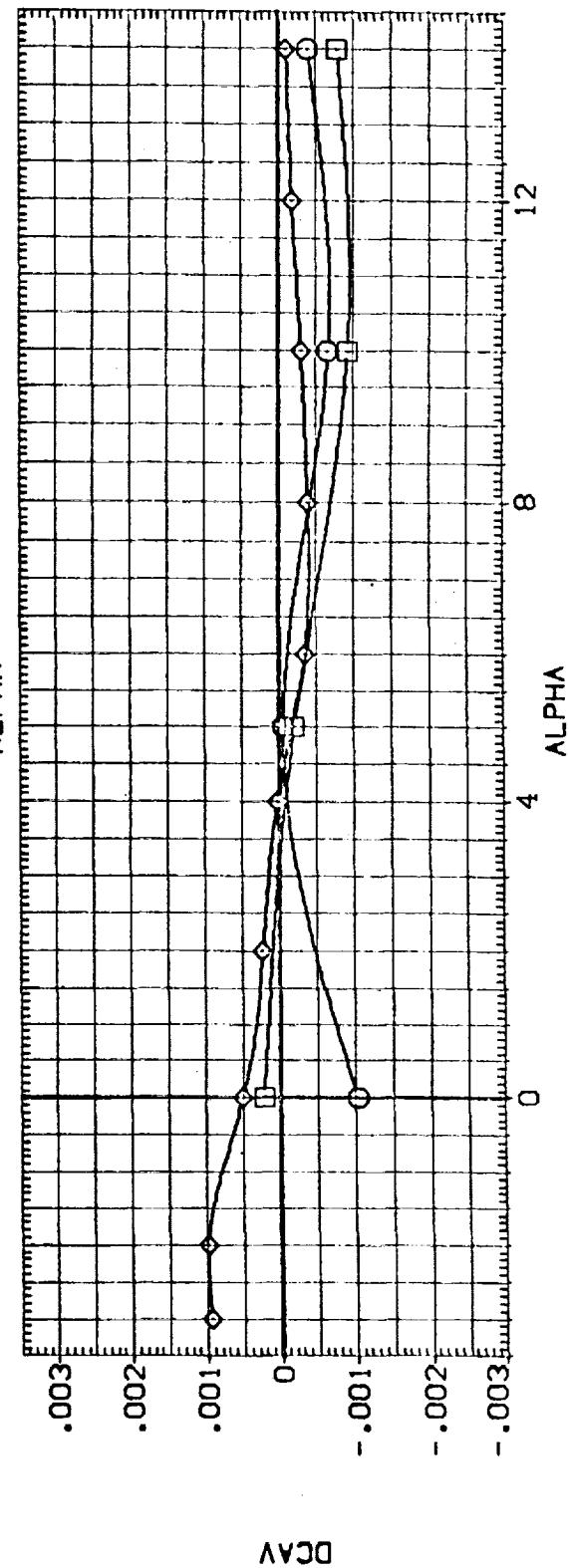
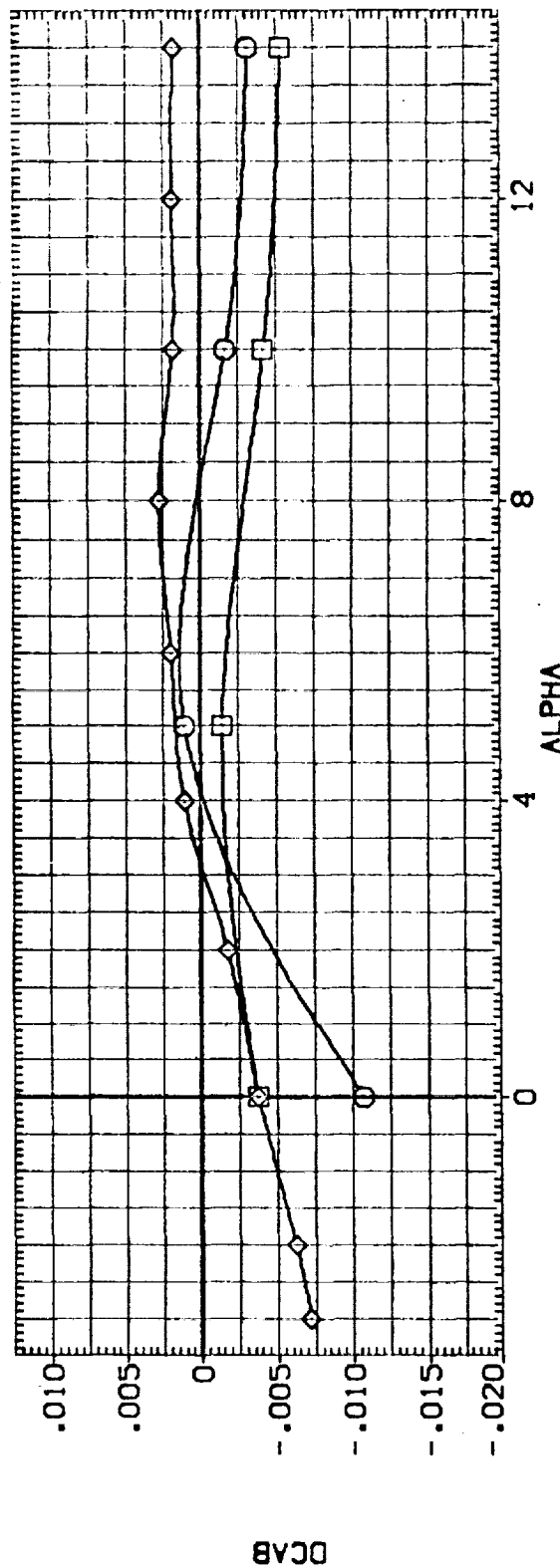


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CAJ MACH = .60

DATA SET SYMBOL

[VER012]

[VER009]

[VER013]

CONFIGURATION DESCRIPTION

ARC 66-709 QAS9 0A11A-(RS V81)+STRUT

DATA NOT AVAILABLE

ARC 66-709 QAS9 0A11A-(RS V81)+STRUT

BETA

.000

.000

.000

ELEVON

.000

.000

.000

BOFLAP

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

.6053

.5935

1.1710

12.6255

.0000

-.3750

.0153

50.FT.

FT.

IN.

IN.

IN.

IN.

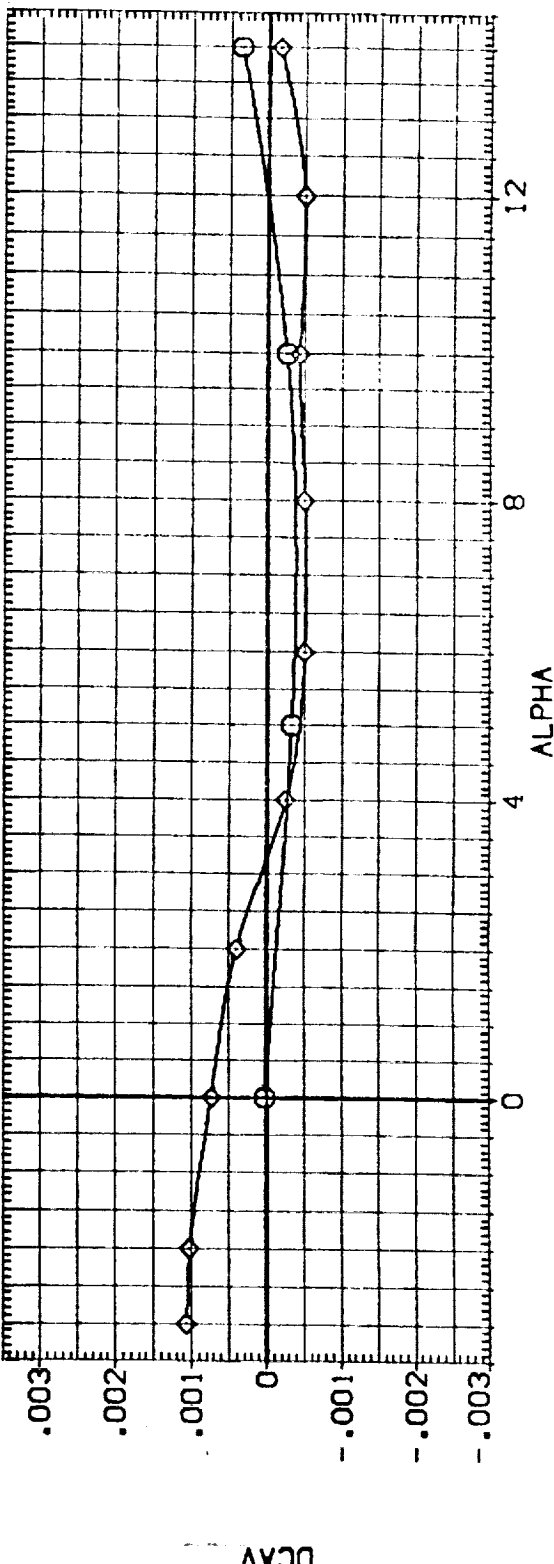
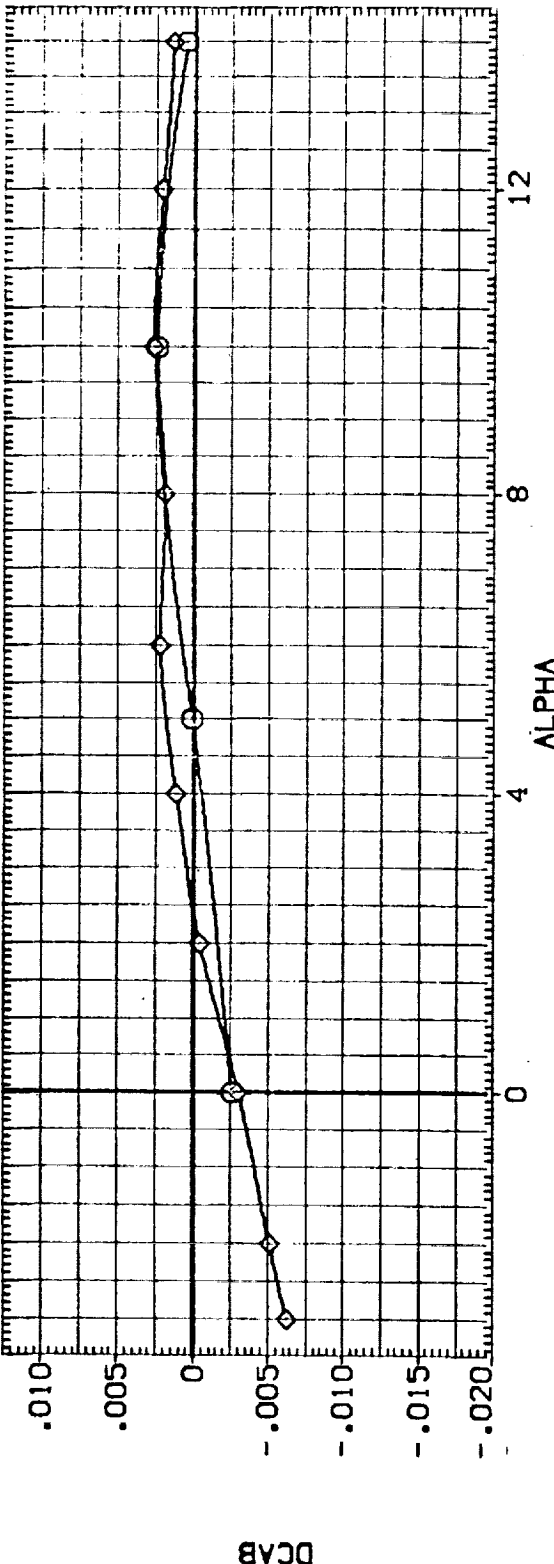


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL (VER012) (VER009) (VER013)

CONFIGURATION DESCRIPTION

ARC 86-709 0A53 0A11A-(R5 V8)+STRUT  
DATA NOT AVAILABLE  
DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
.000 .000 -11.700  
.000 .000 -11.700  
.000 15.000 -11.700

REFERENCE INFORMATION  
SREF .5053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

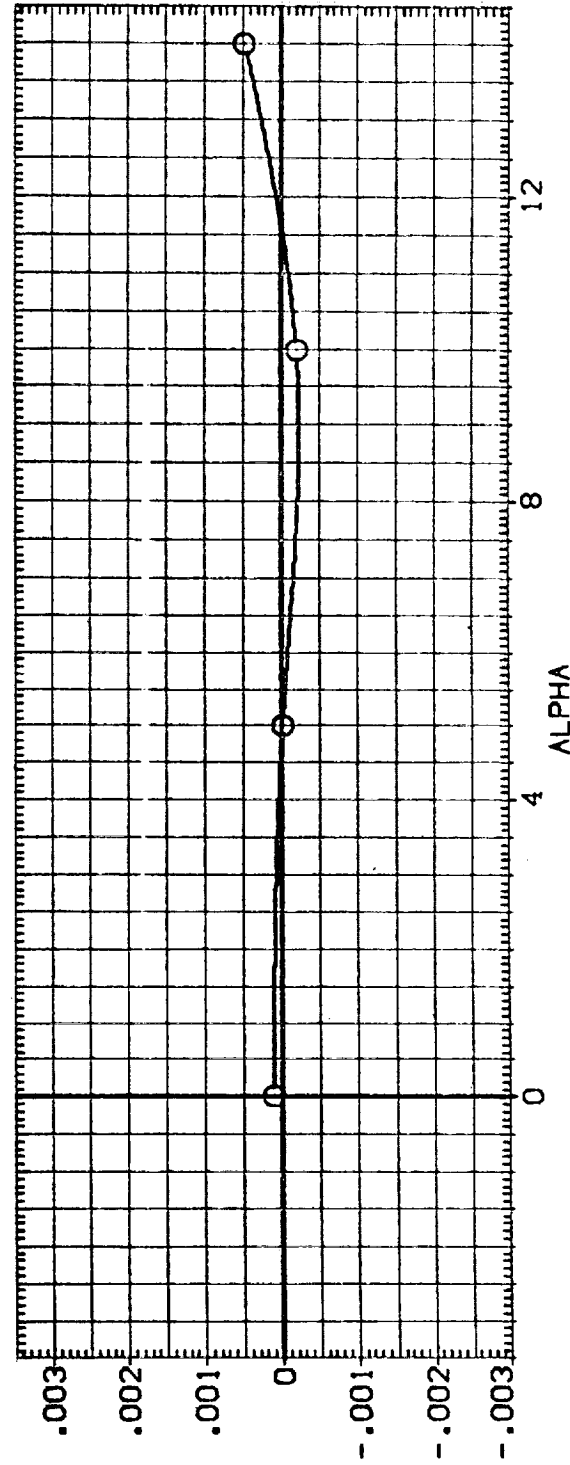
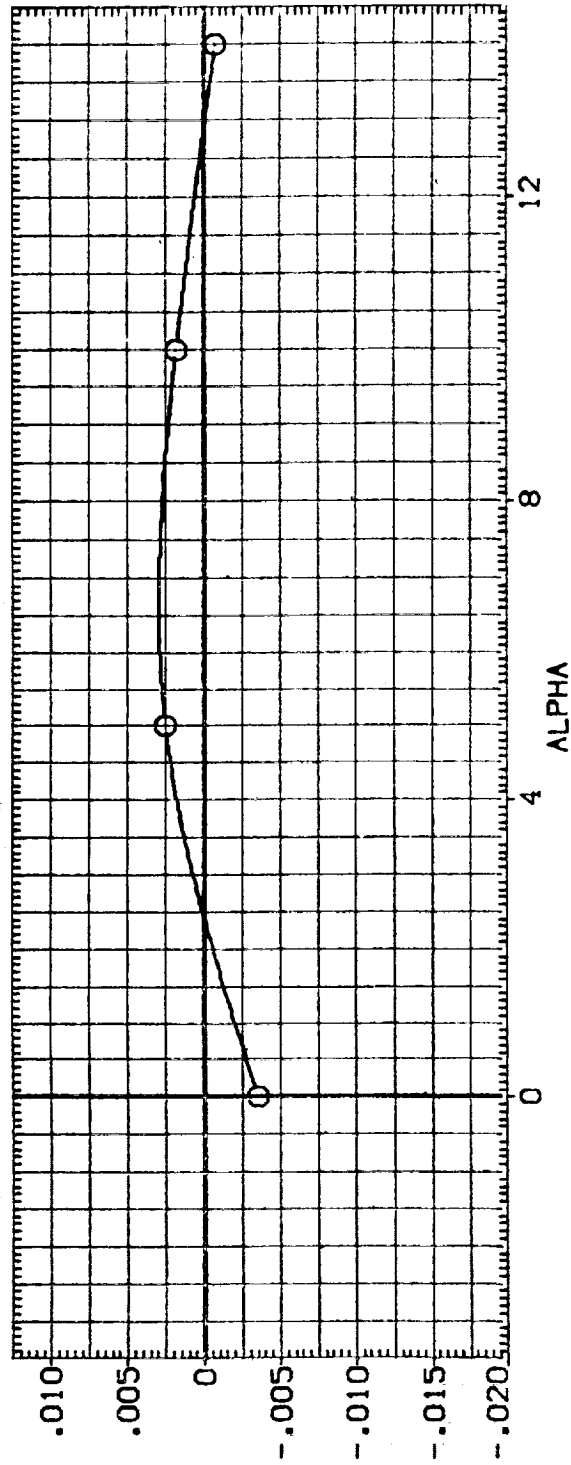


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER008)	ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMPP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

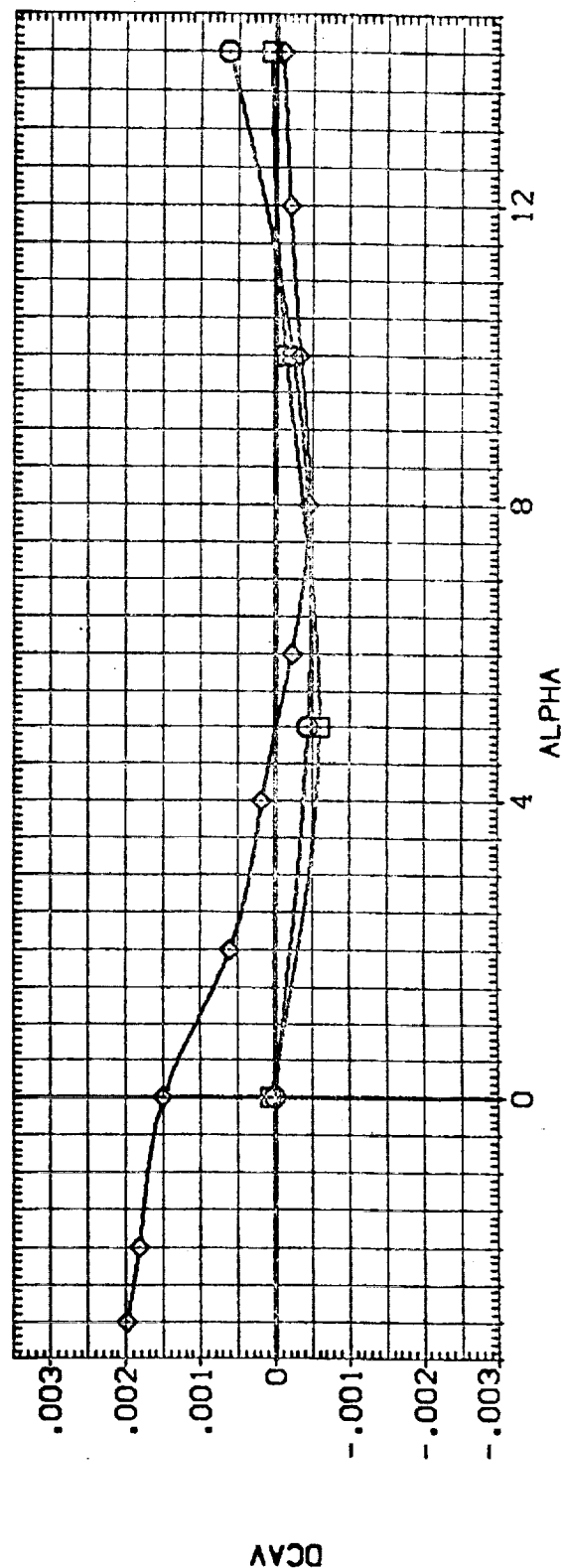
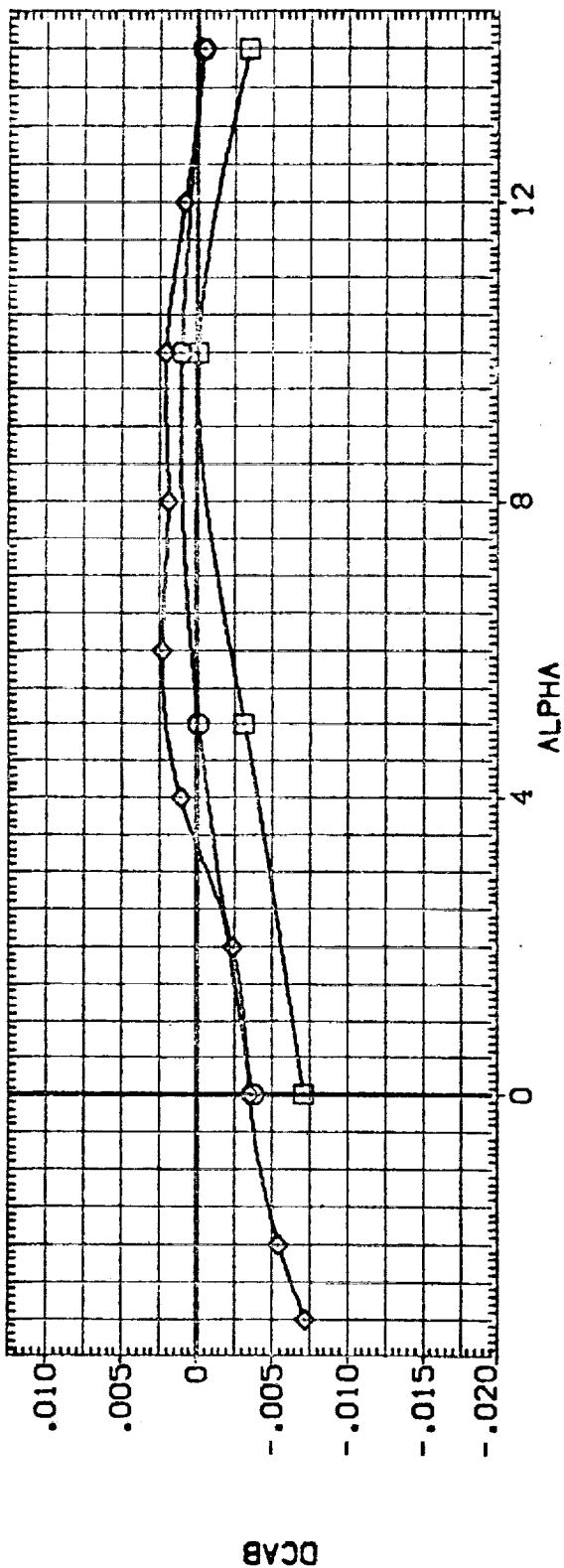


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(DM)MACH = .80



DATA SET SYMBOL: (VER012)  
 (VER009)  
 (VER013)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 0A59 0A11A-(R5 V8)-STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700  
 -11.700  
 15.000  
 -11.700

REFERENCE INFORMATION:  
 SREF: .6053 SQ.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 IN.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

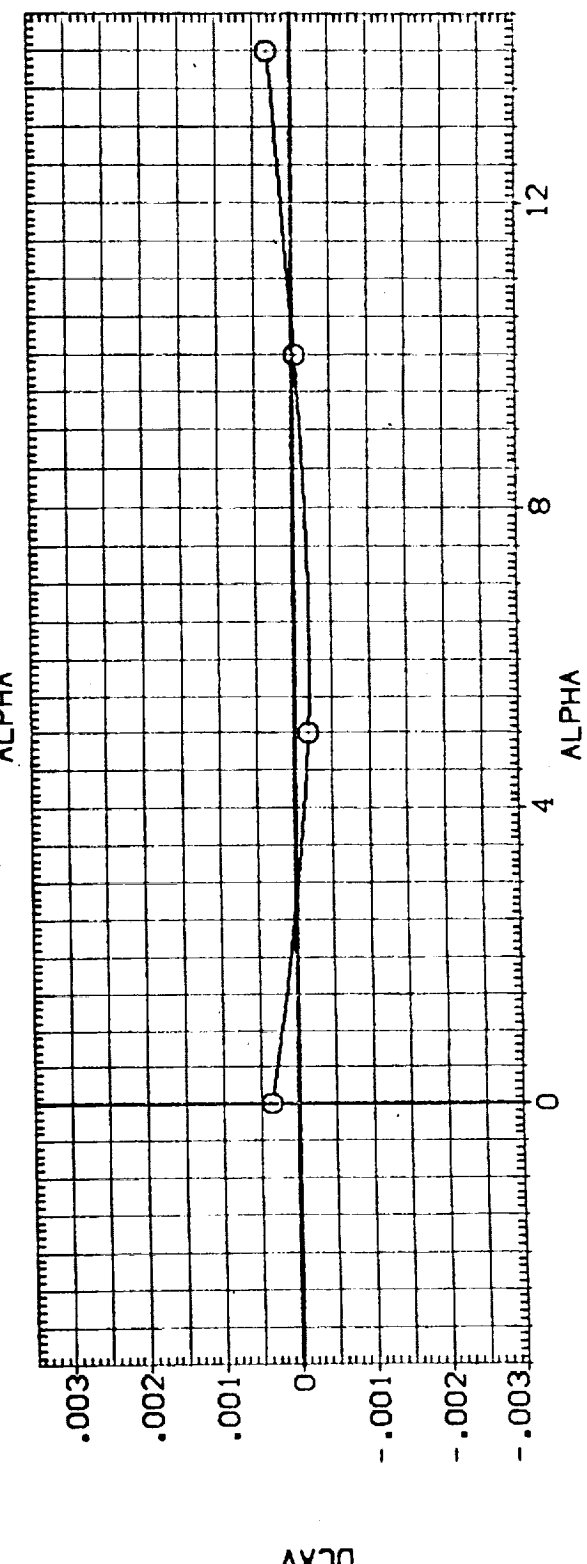
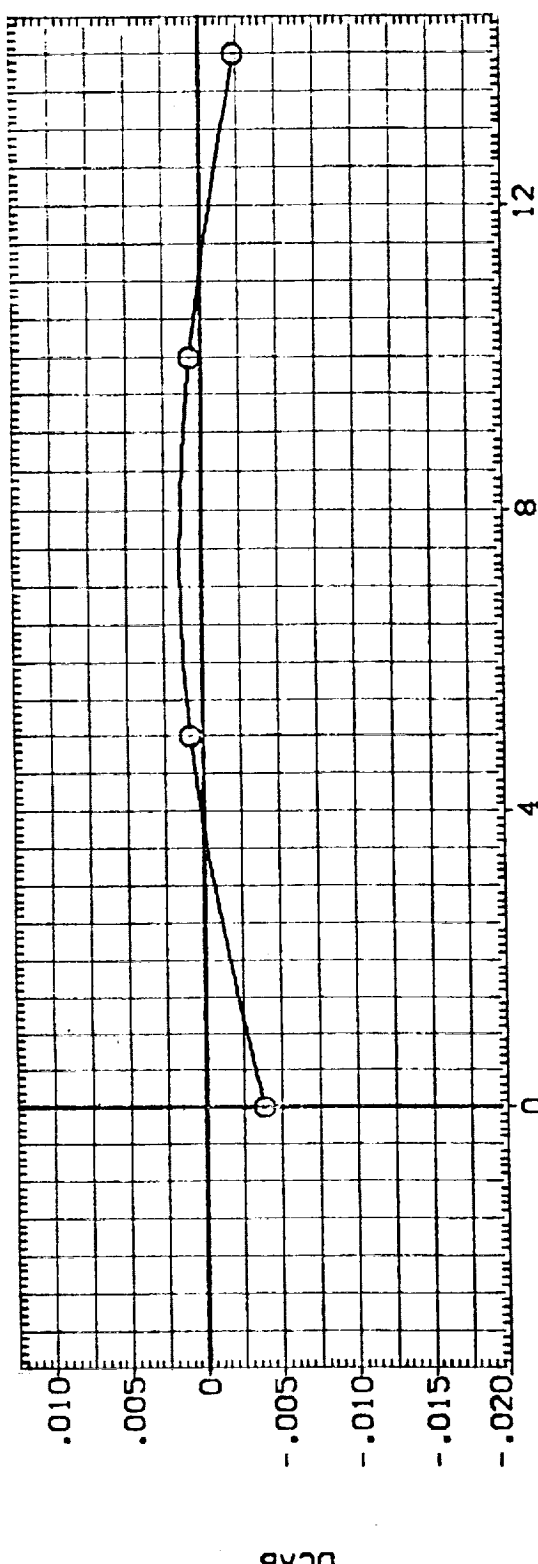


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VERO12) ARC 65-709 0A59 0A11A-(R5 V8)+STRUT  
 (VERO09) ARC 65-709 0A59 0A11A-(R5 V8)+STRUT  
 (VERO13) ARC 65-709 0A59 0A11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

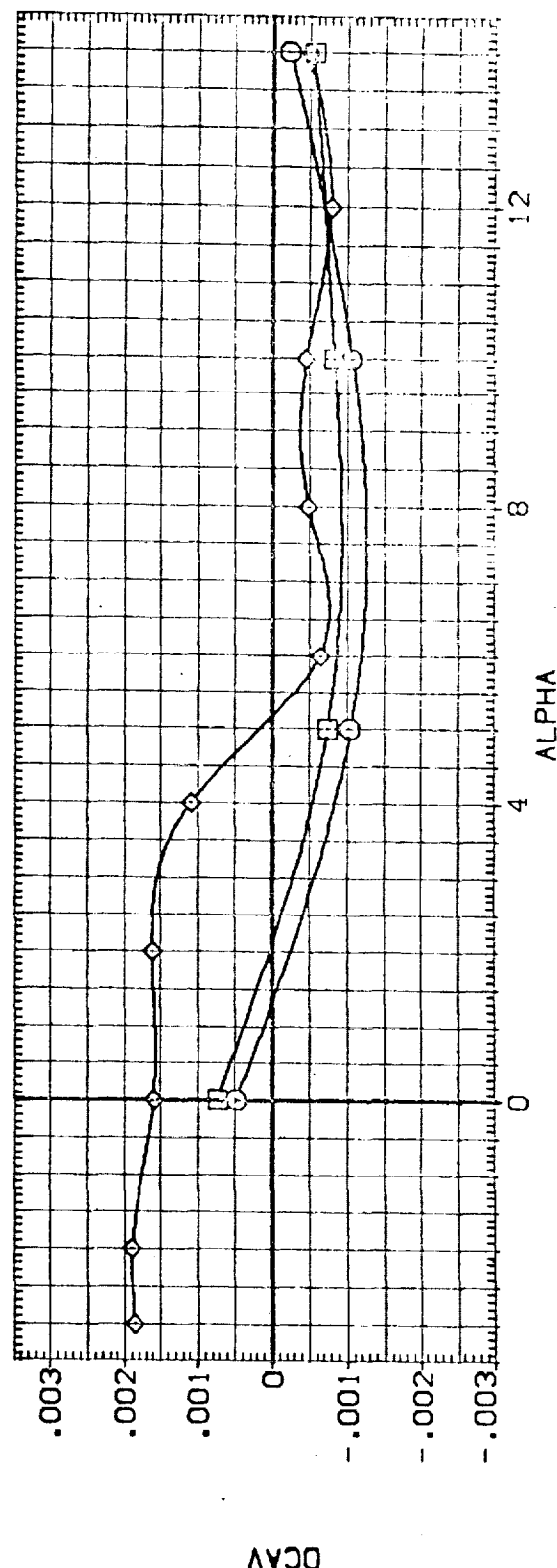
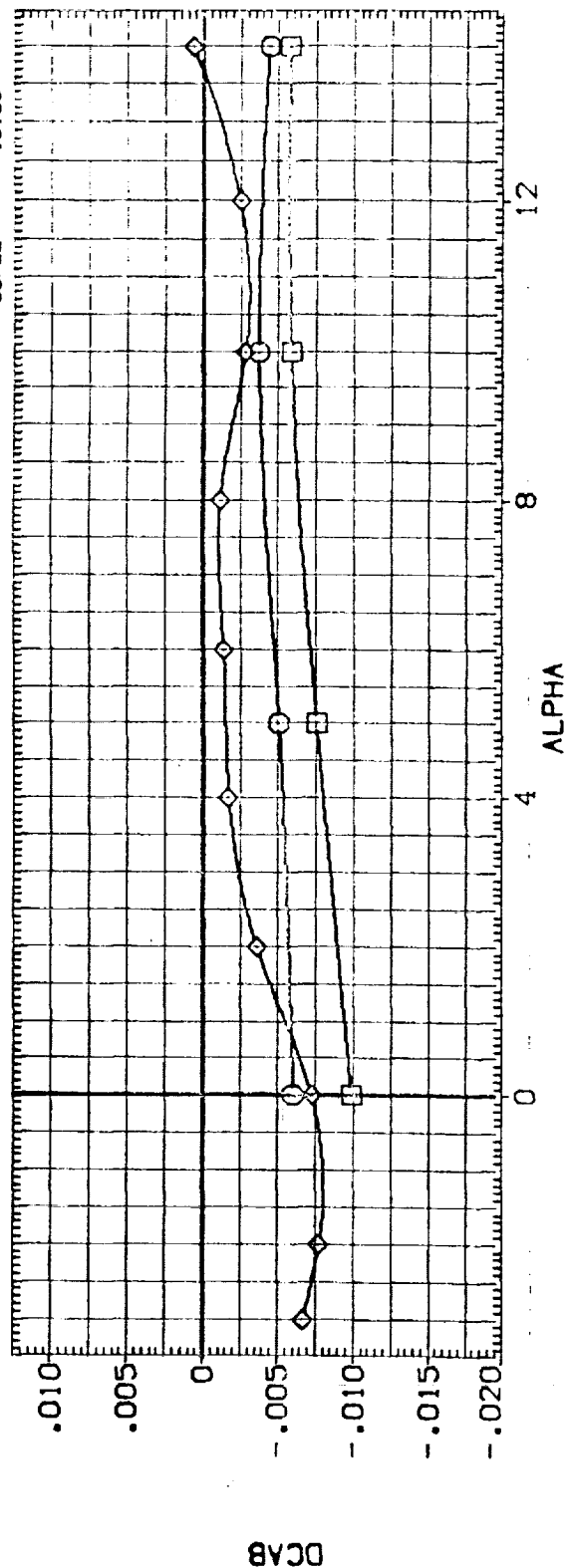


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL: (VER012)  
 (VER009)  
 (VER013)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 QAS9 QALIA-(PS V81)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 .000  
 .000  
 .000

ELEVON: .000  
 .000  
 .000  
 .000

BOFLAP: -11.700  
 -11.700  
 -11.700  
 -11.700

REFERENCE INFORMATION:  
 SREF: .6053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

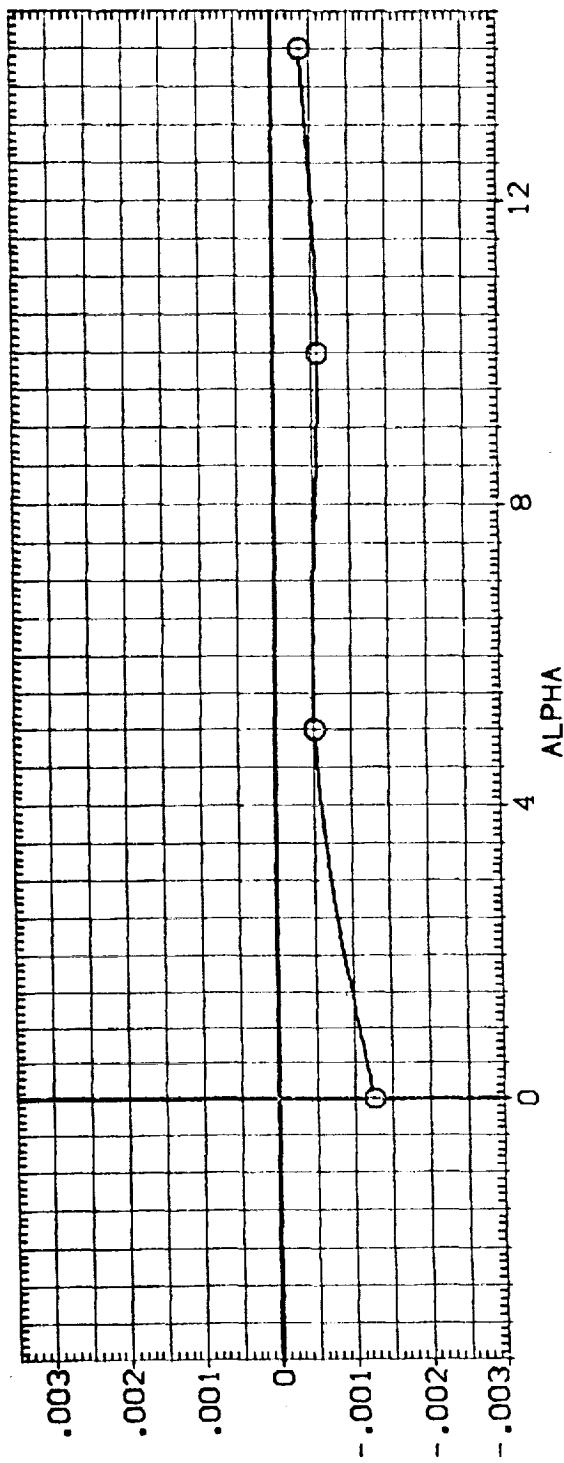
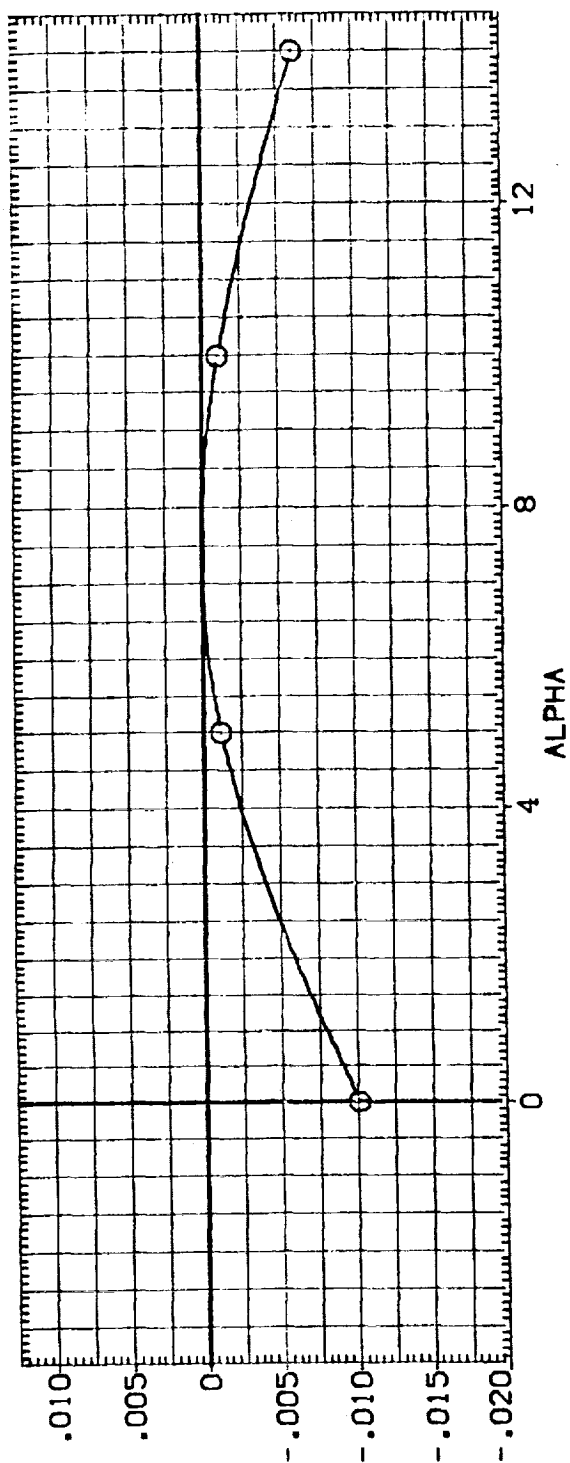


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(G)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (VER012)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 (VER009)    ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT  
 (VER013)    ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA    ELEVON    BOFLAP  
 .000    .000    -11.700  
 .000    .000    -11.700  
 .000    15.000    -11.700

REFERENCE INFORMATION  
 SREF    6053    SQ.FT.  
 LREF    .5935    FT.  
 BREF    1.1710    IN.  
 XMRP    12.6255    IN.  
 YMRP    .0000    IN.  
 ZMRP    -.3750    IN.  
 SCALE    .0150

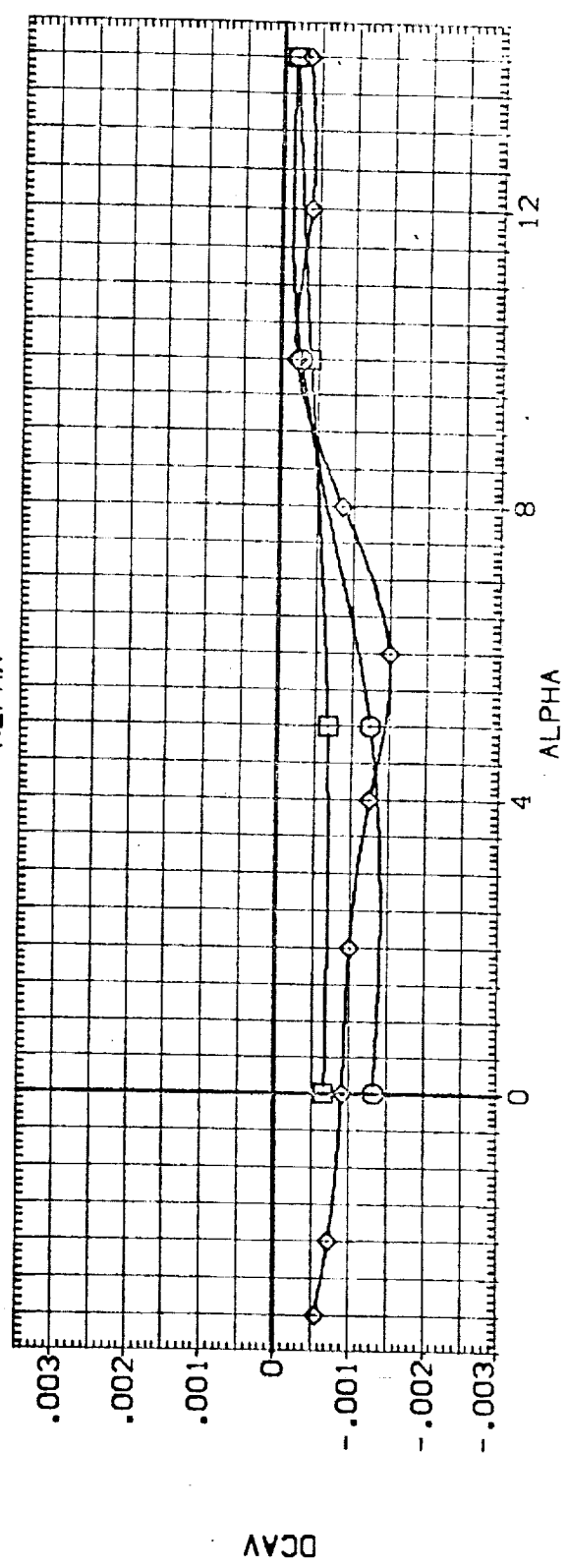
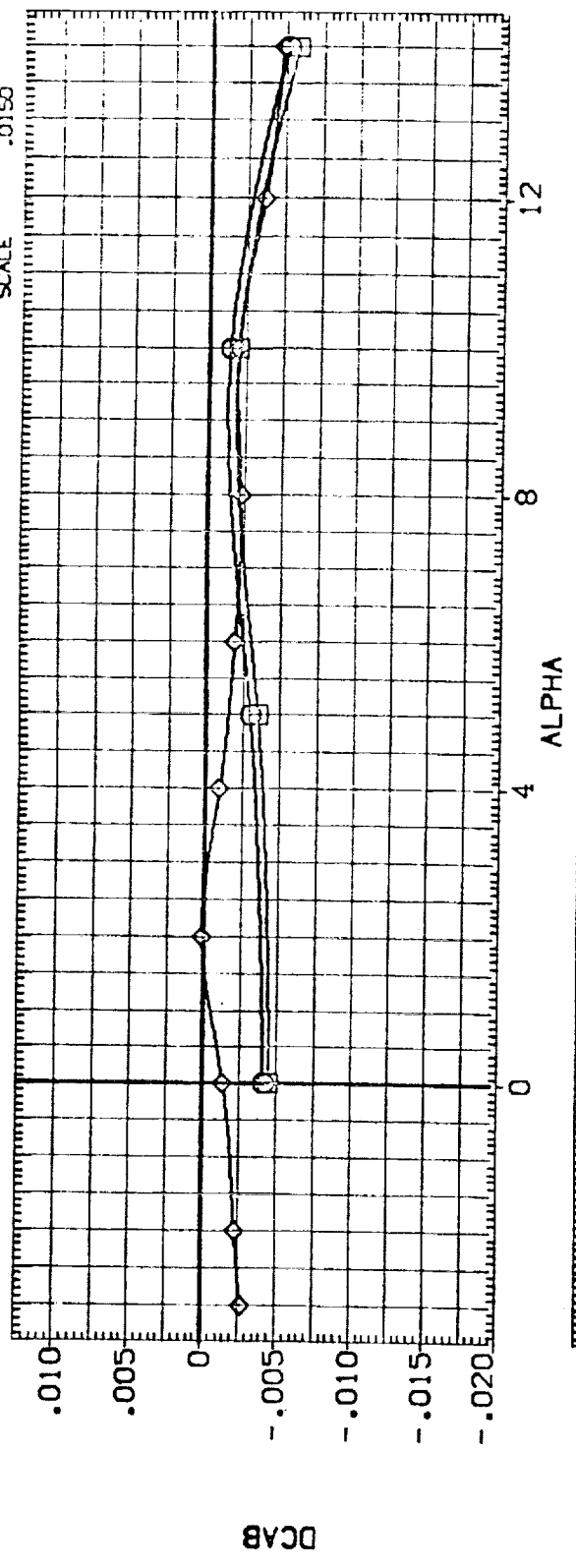


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAL1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 QAS9 QAL1A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5953 FT.
(VER013)	ARC 66-709 QAS9 QAL1A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1110 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

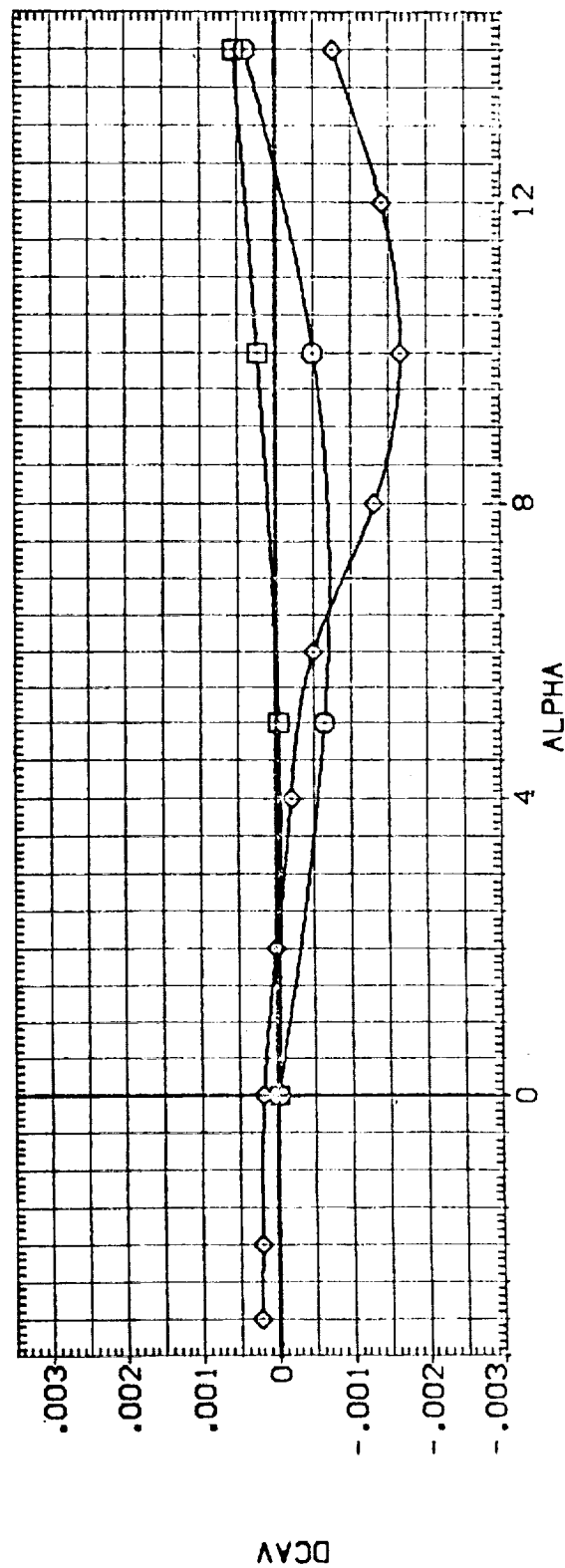
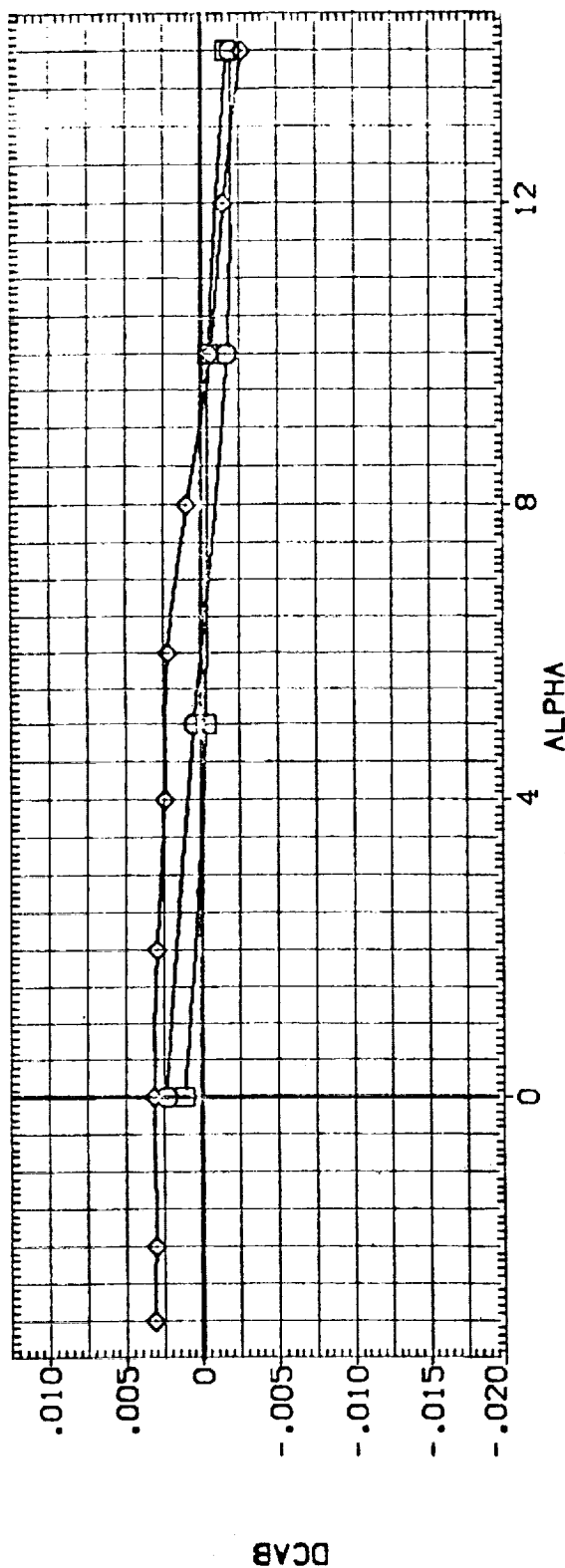


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO09)	ARC 66-709 0A59 0A11A-(N2A RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VERO13)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

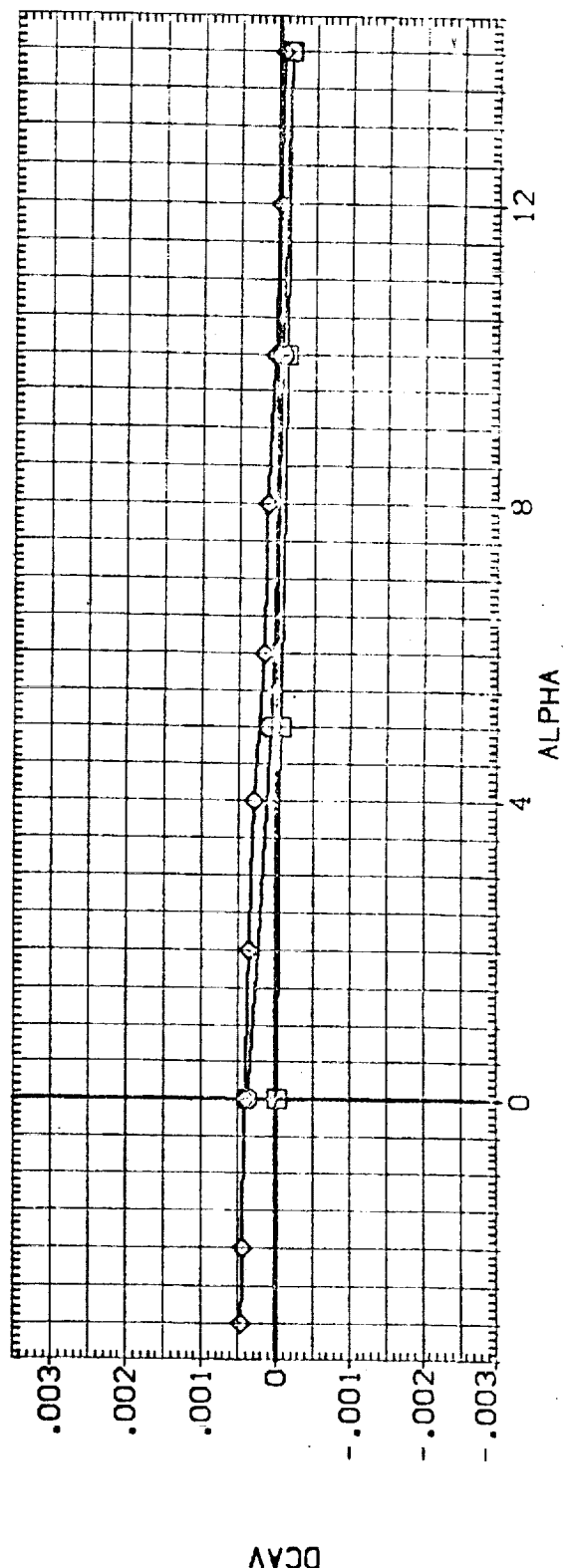
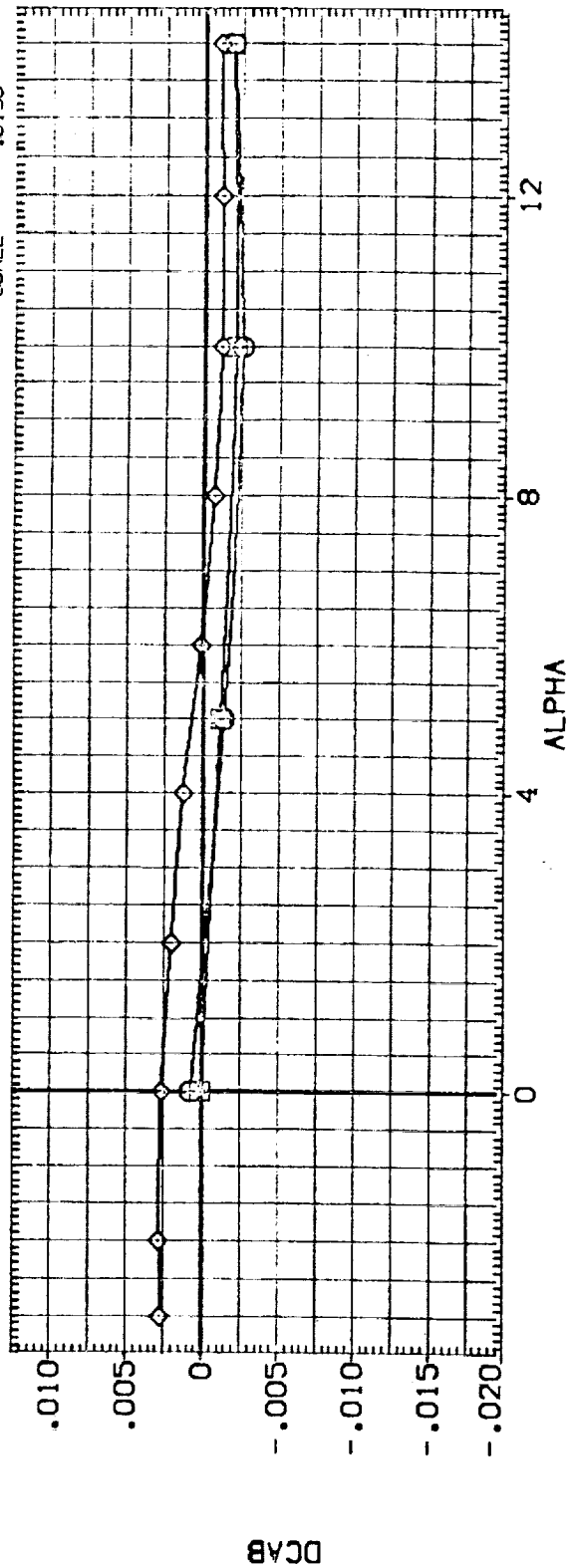


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(JJ)MACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 DASS DAI1A-(N2A RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

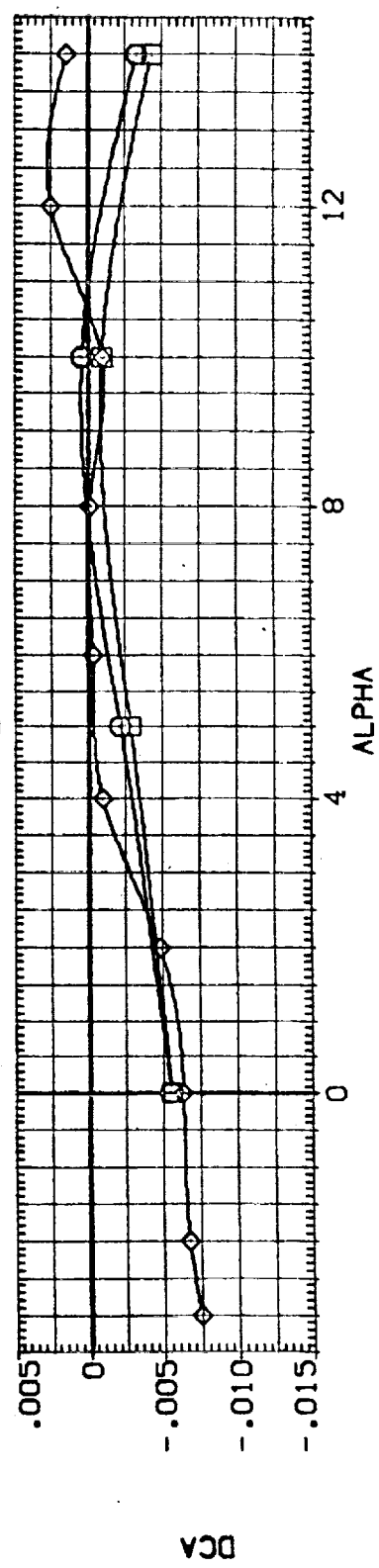
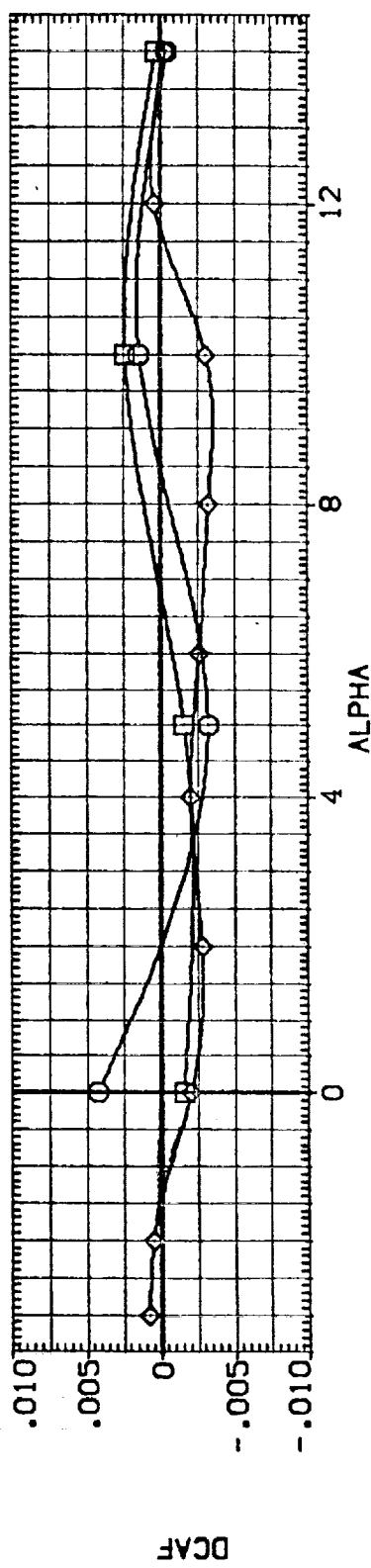
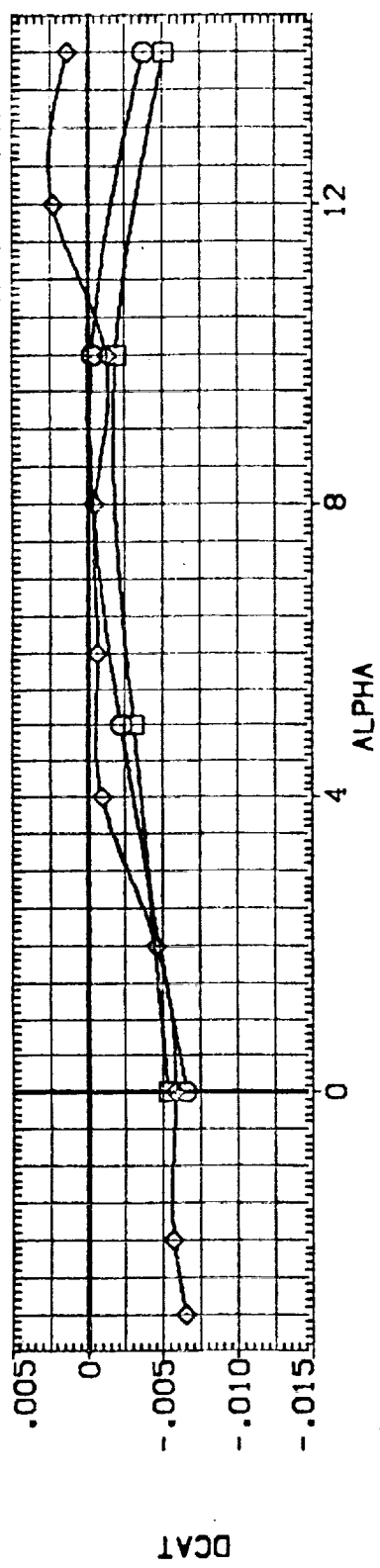


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL

(VERO12)

(VERO09)

(VERO13)

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(RS V81)+STRUT

DATA NOT AVAILABLE

ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA

.000

.000

.000

ELEVON

.000

.000

15.000

80FLAP

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

.6053

.5935

1.1710

12.6255

.0000

-.3750

.0150

90.FT.

FT.

IN.

IN.

IN.

IN.

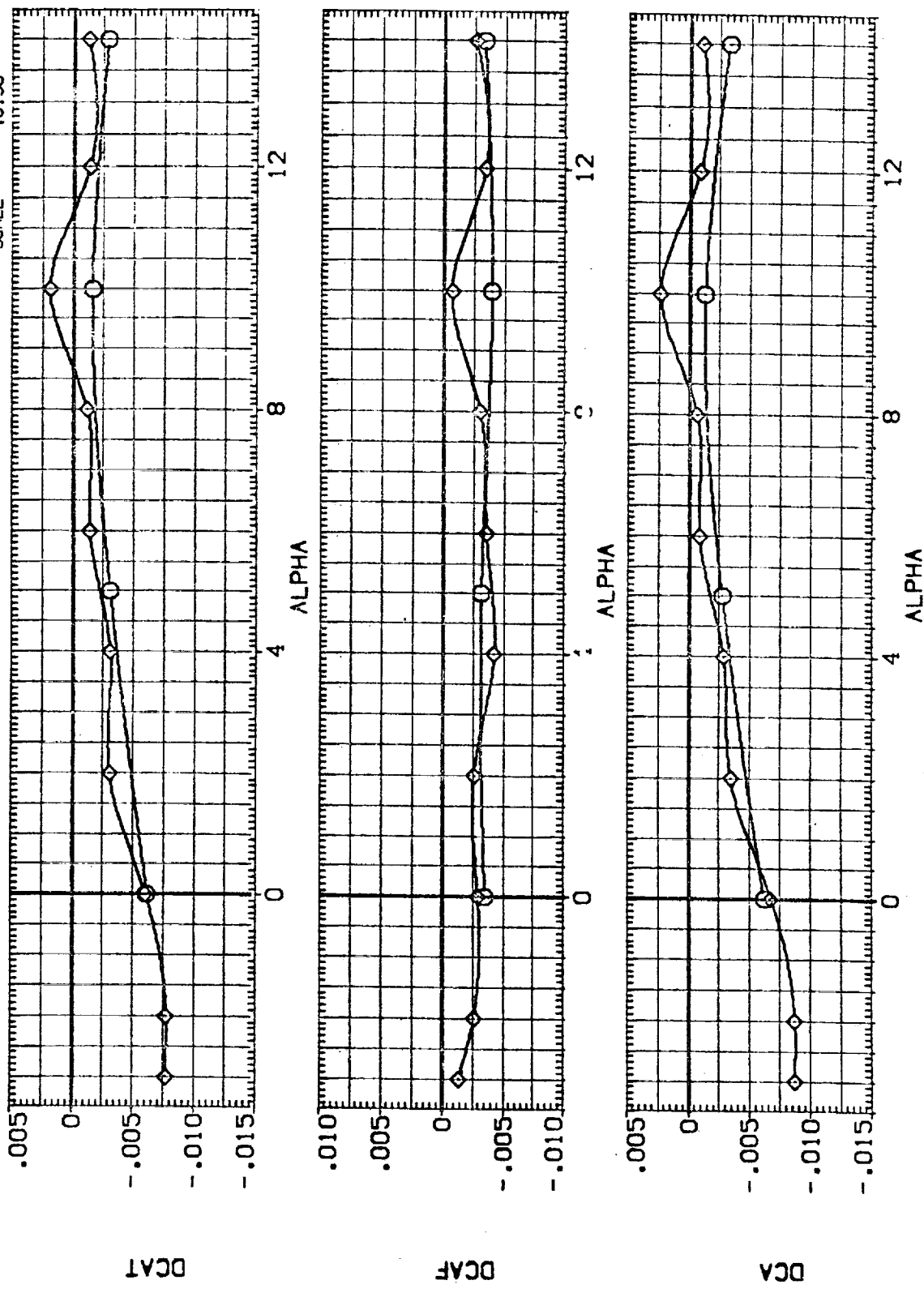


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70



DATA SET SYMBOL: (VERO12) (VERO09) (VERO13)

CONFIGURATION DESCRIPTION: ARC 68-709 OAS9 OA11A-(RS VB1)+STRUT  
DATA NOT AVAILABLE  
DATA NOT AVAILABLE

BETA: .000 .000 .000 .000  
ELEVON: .000 .000 .000 .000  
BOFLAP: -11.700 -11.700 -11.700 -11.700

REFERENCE INFORMATION: SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

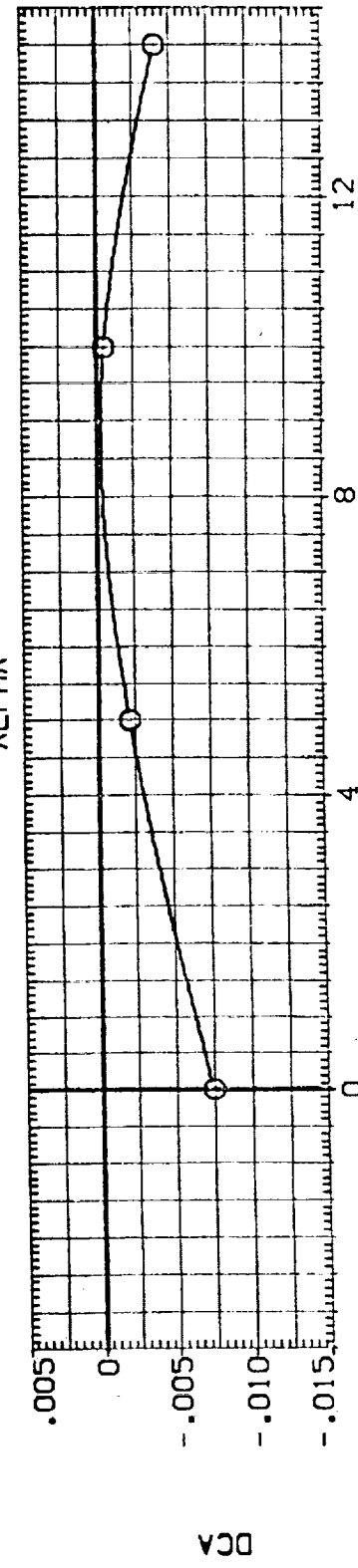
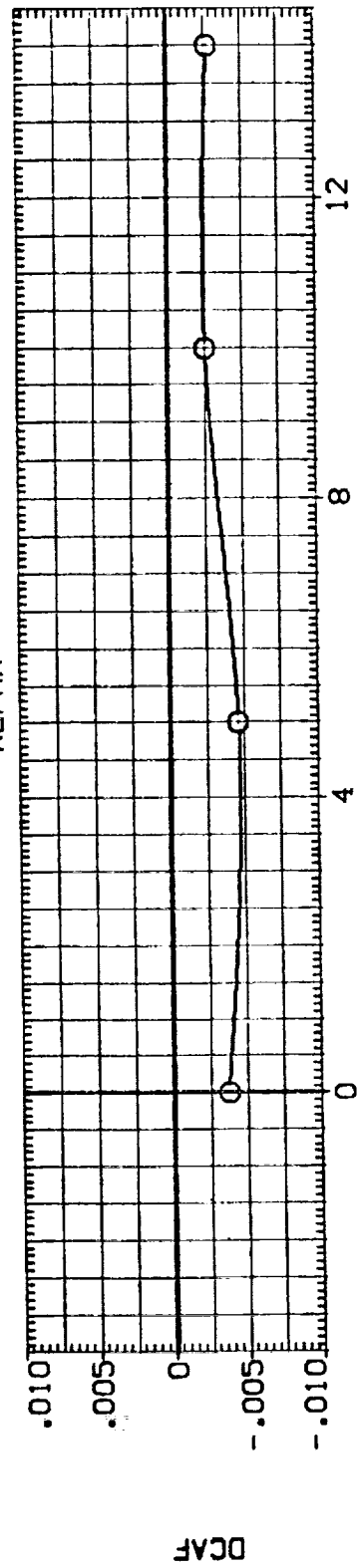
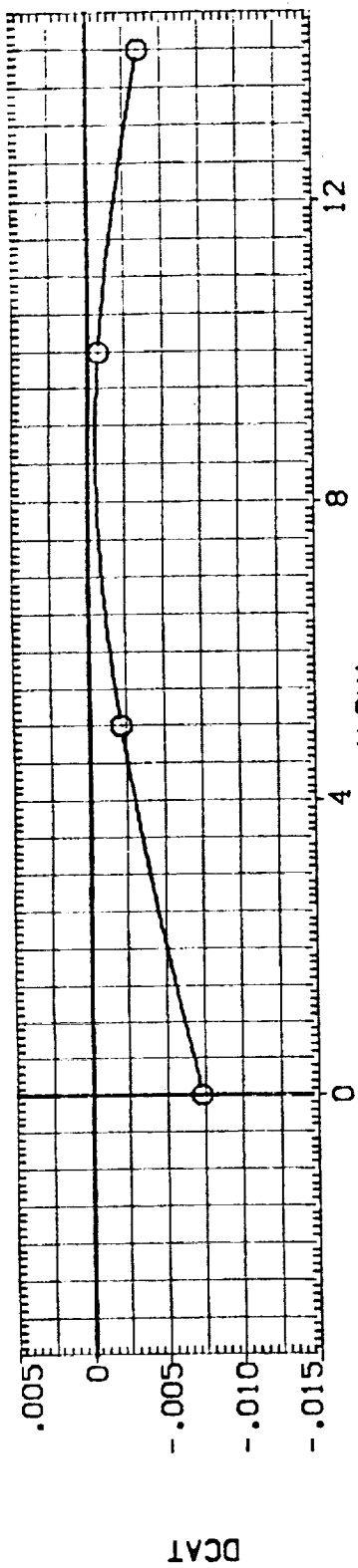


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 DALLA-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 QAS9 DALLA-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 DALLA-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

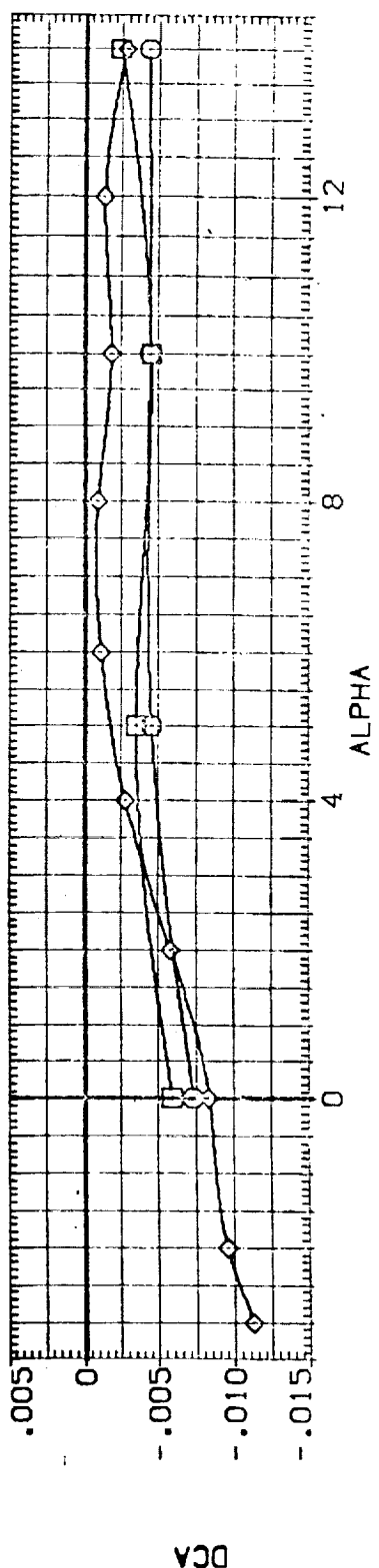
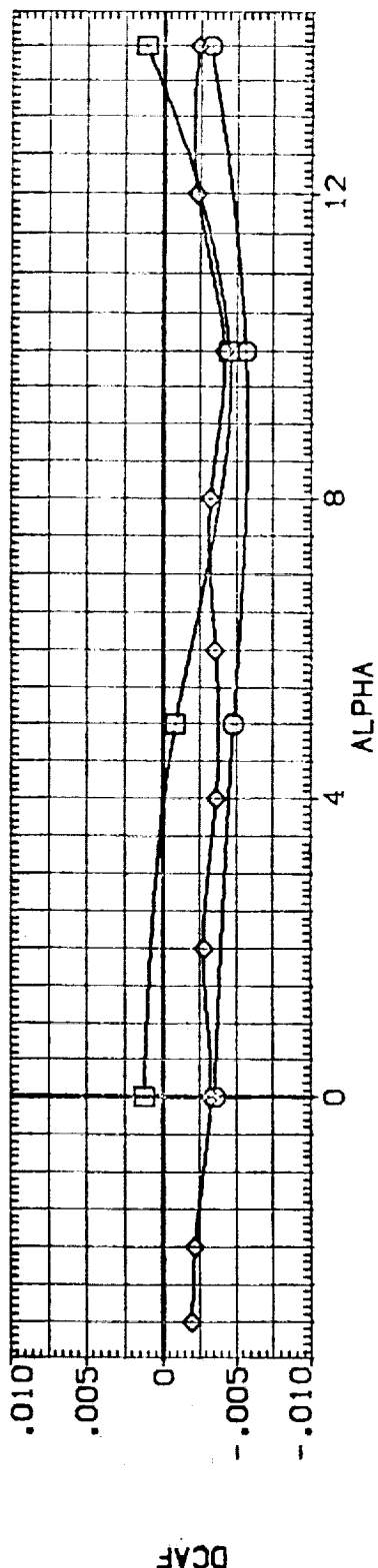
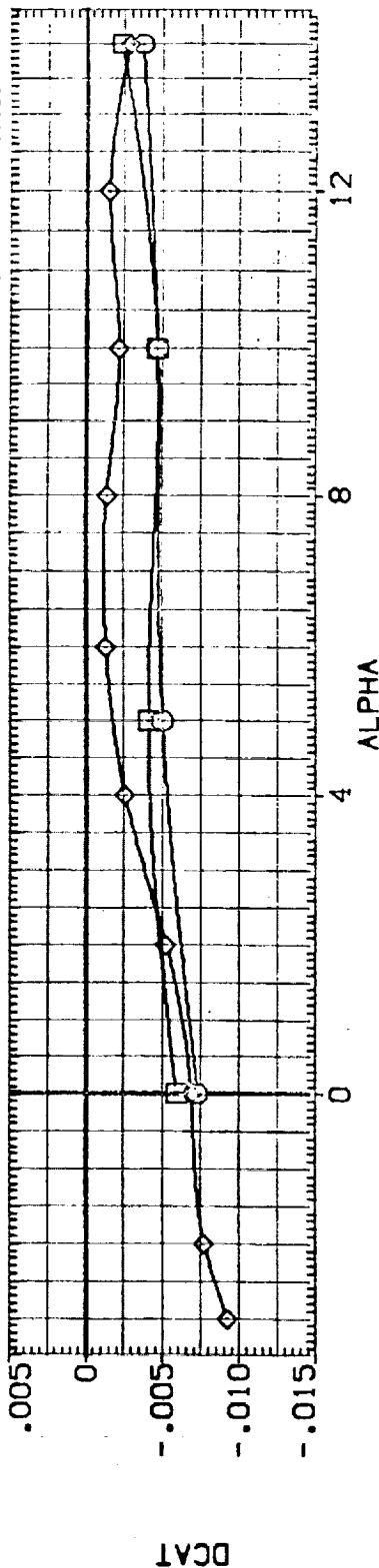


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(0)MACH = .80

REFERENCE INFORMATION	
SREF	.6053 SO.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

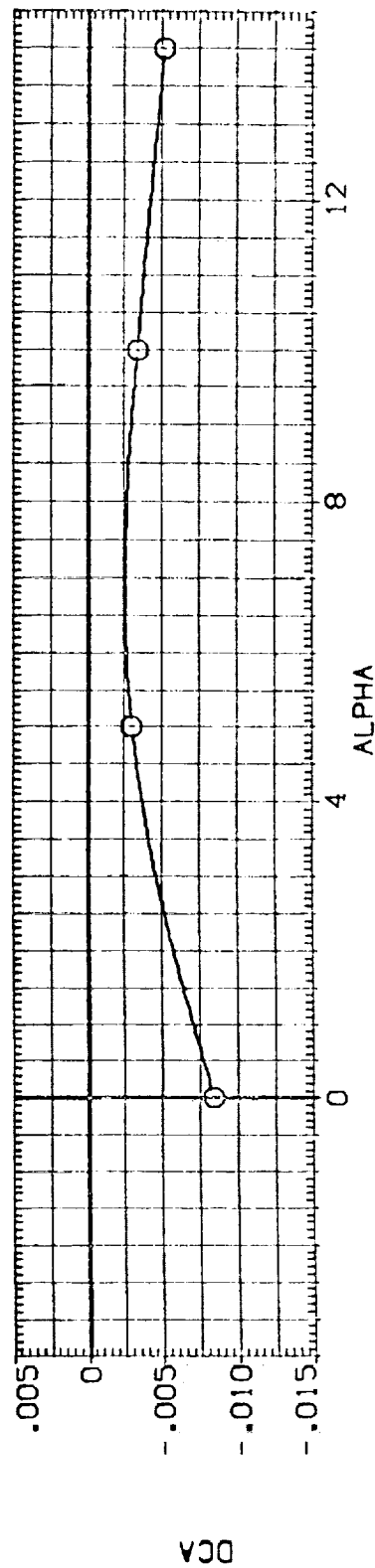
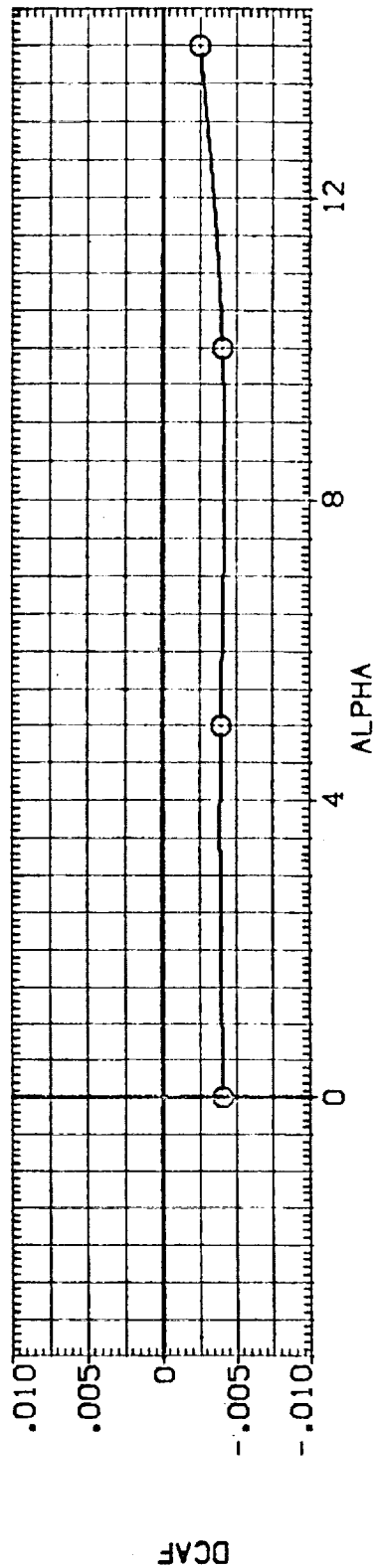
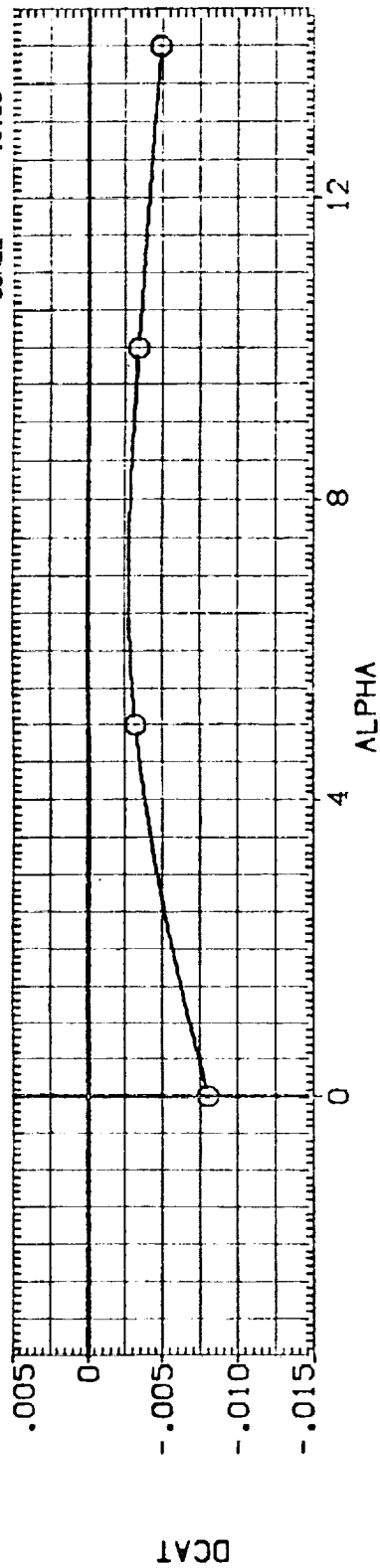


FIG. 7. PITCH TARES FOR DEFLECTED ELEVONS

$$(E)_{MACH} = .85$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DASS DALLA-(RS V8)+STRUT  
 (VER009) ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT  
 (VER013) ARC 66-709 DASS DALLA-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700  
 .000 15.000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

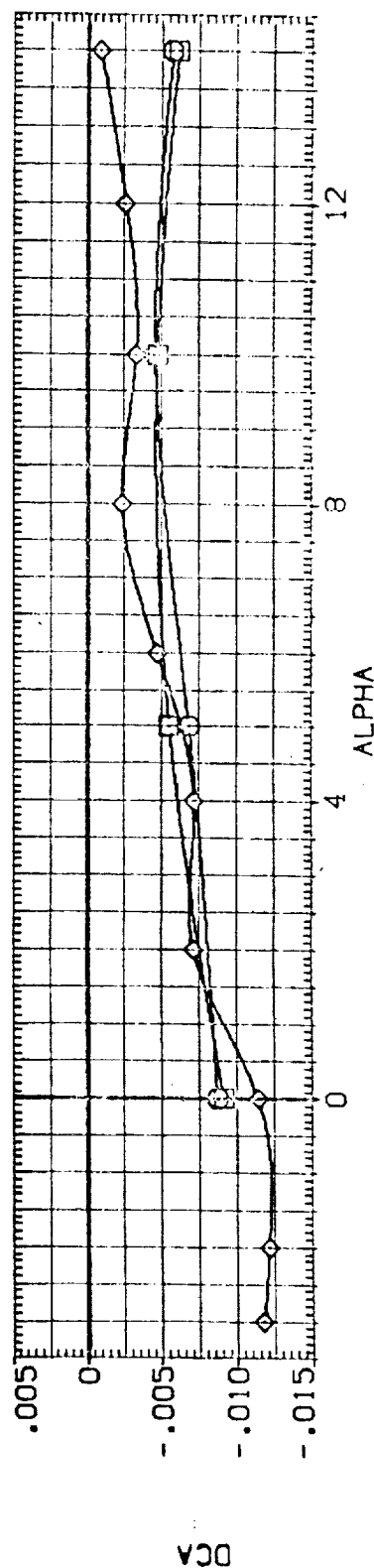
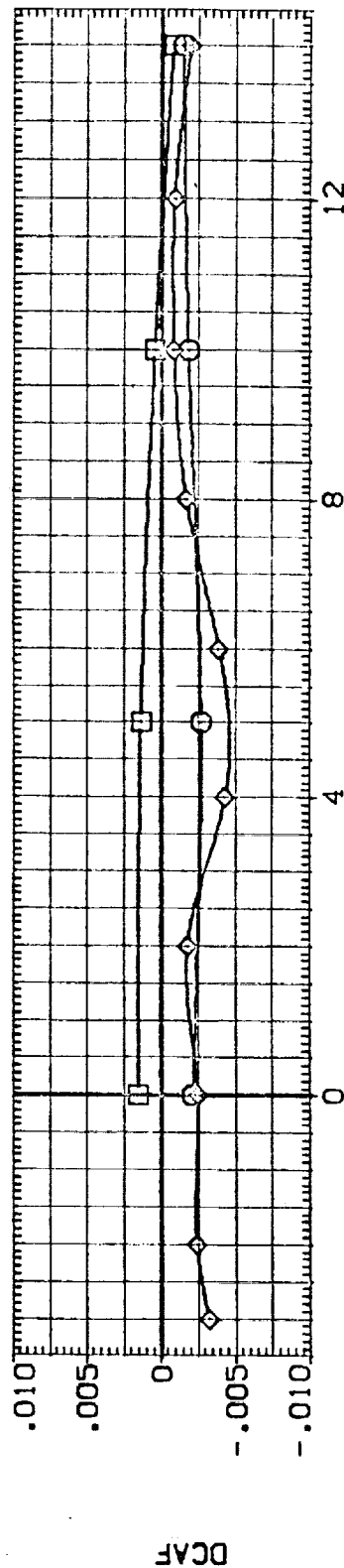
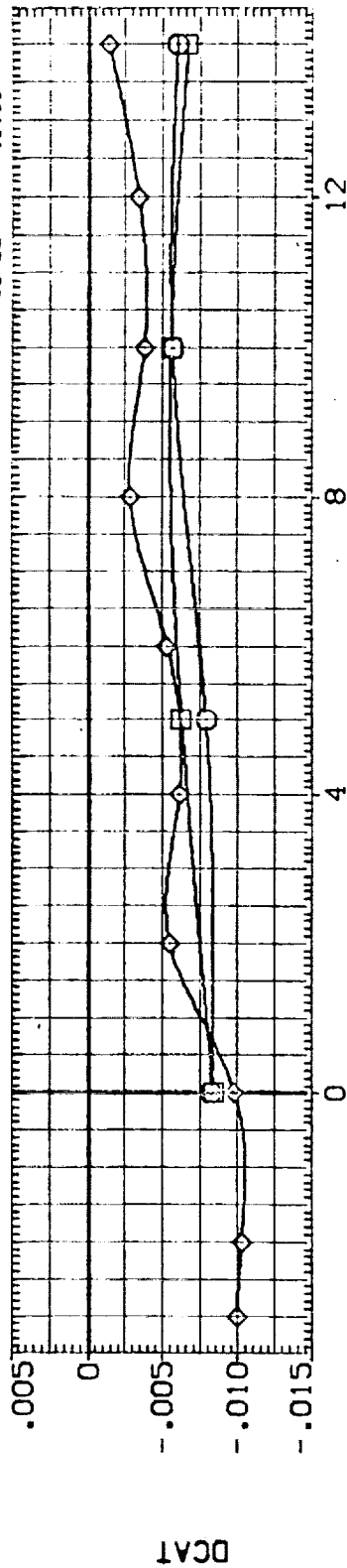


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(F)MACH = .90

DATA SET SYMBOL: CONFIGURATION DESCRIPTION:  
 (VERO12) ARC 66-709 OAS9 DA11A-(R5 V81+STRUT)  
 (VERO09) DATA NOT AVAILABLE  
 (VERO13) DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700

REFERENCE INFORMATION:  
 SREF: .6053 SQ.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

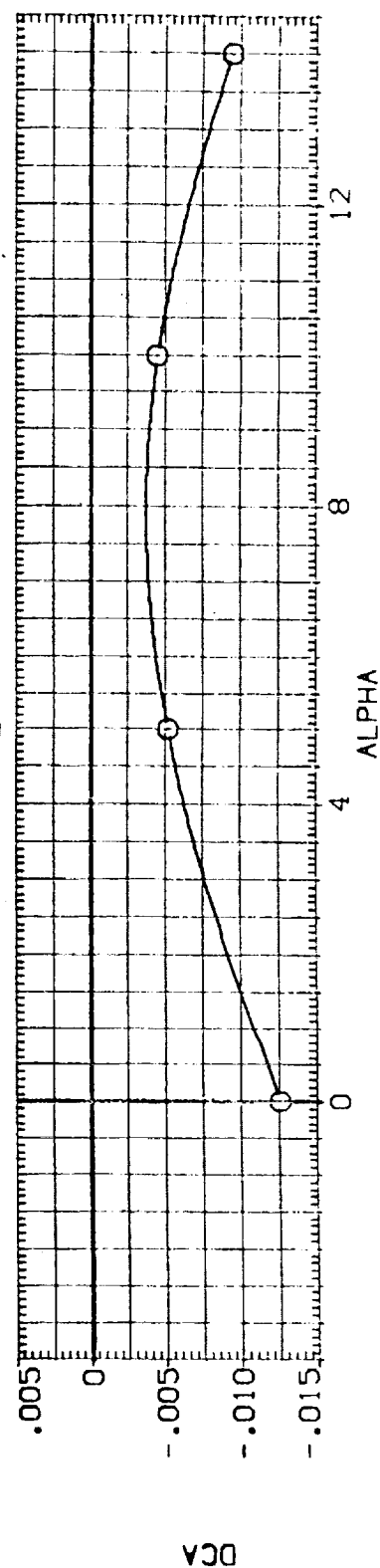
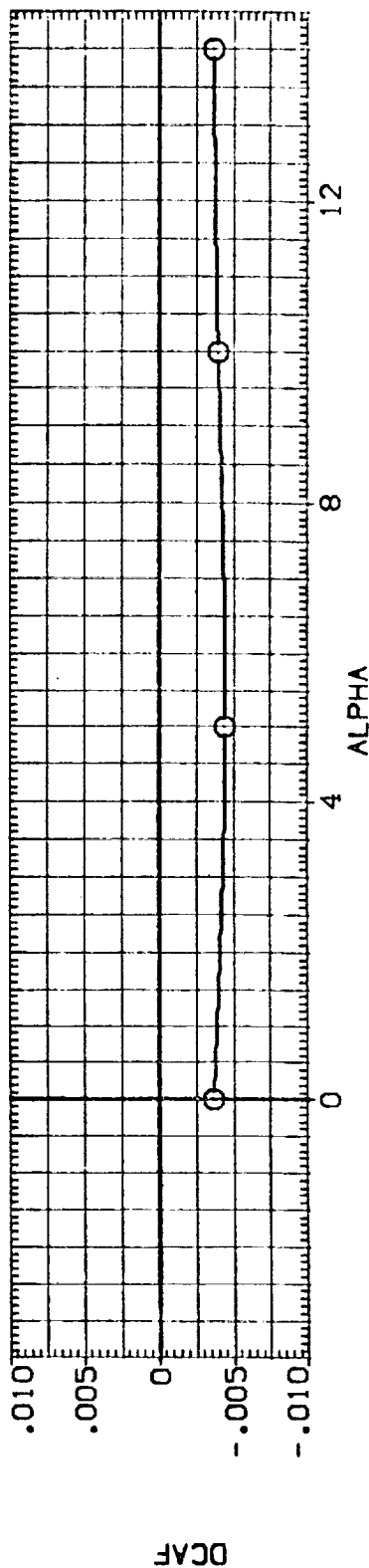
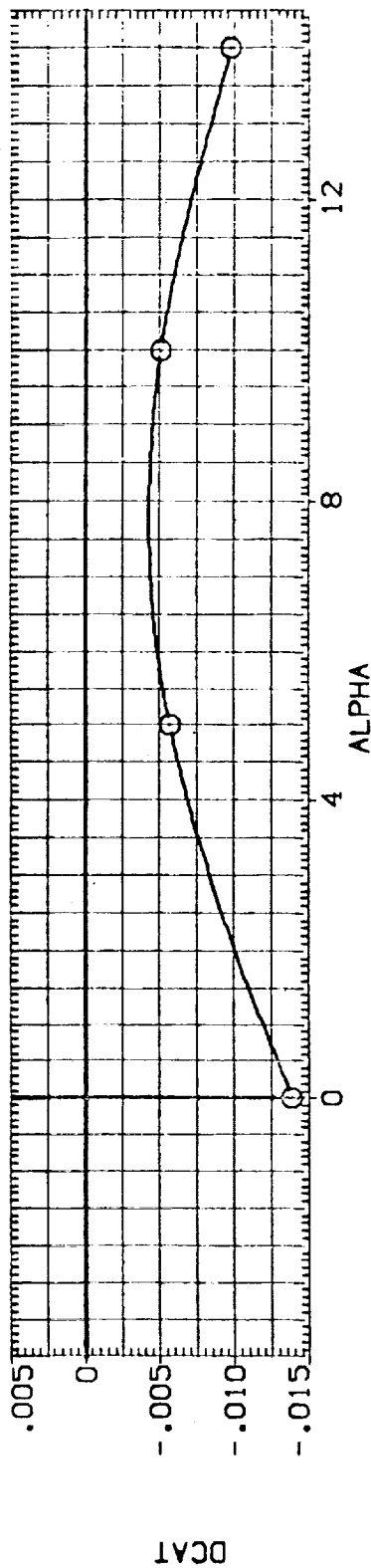





FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)		ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)		ARC 66-709 0A59 0A11A-(N2A R5 V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)		ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
						XMRP 12.6255 IN.
						YMRP .0000 IN.
						ZMRP -.3750 IN.
						SCALE .0150

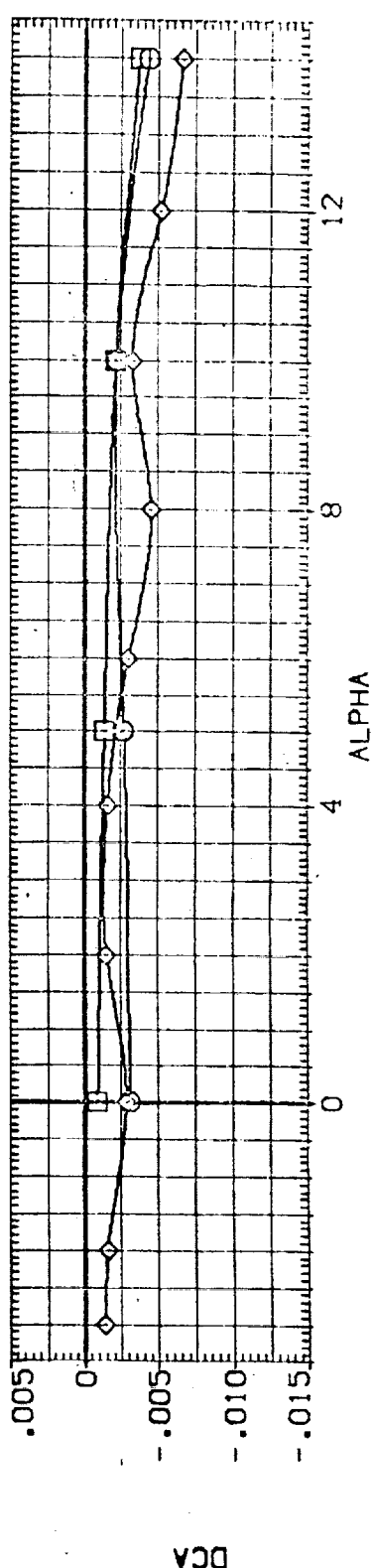
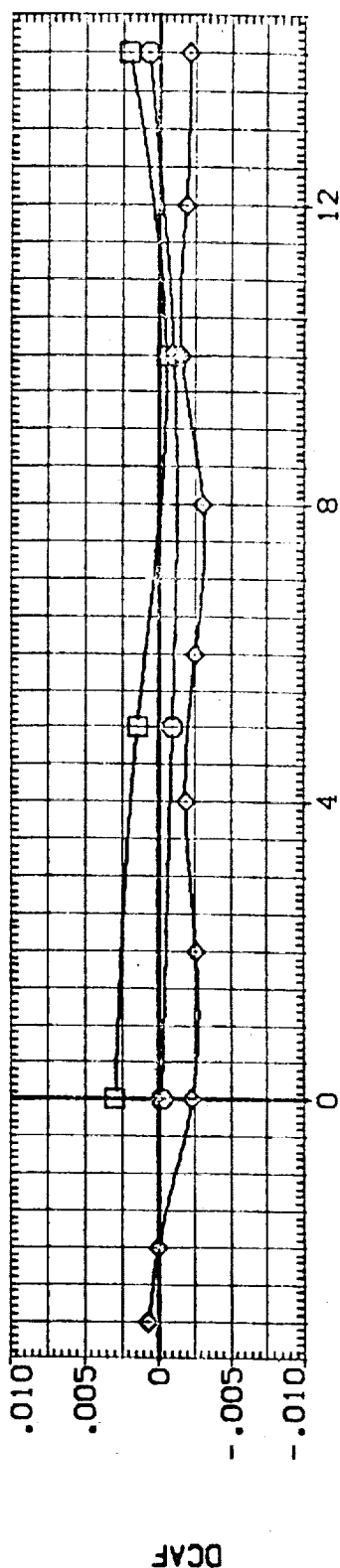
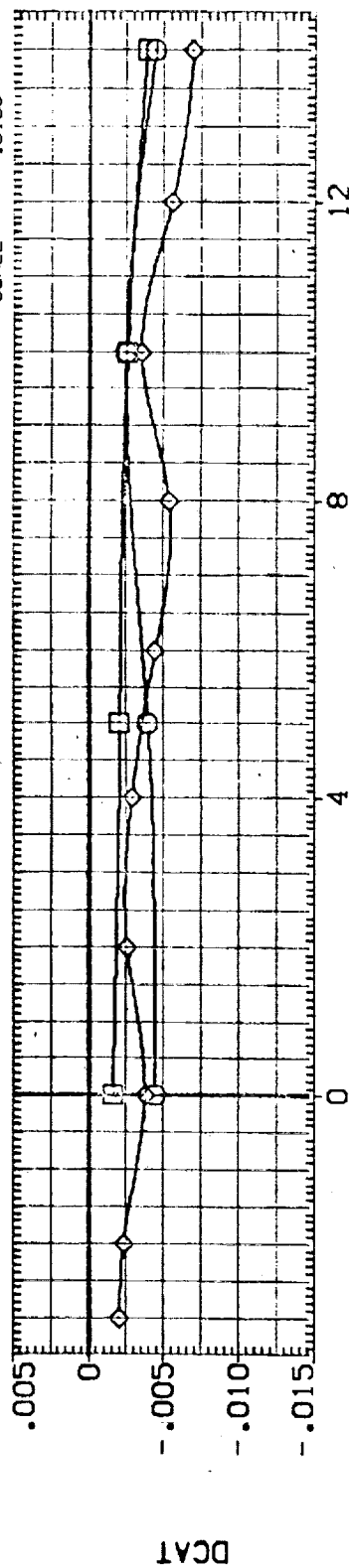


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 65-709 QAS9 0A11A-(P5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER013)	ARC 65-709 QAS9 0A11A-(N24 P5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 65-709 QAS9 0A11A-(P5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

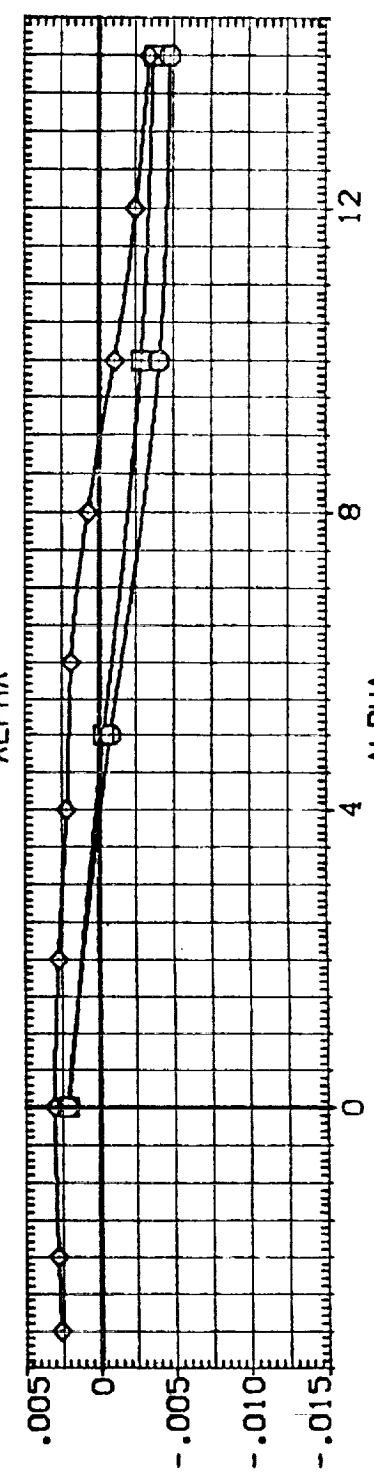
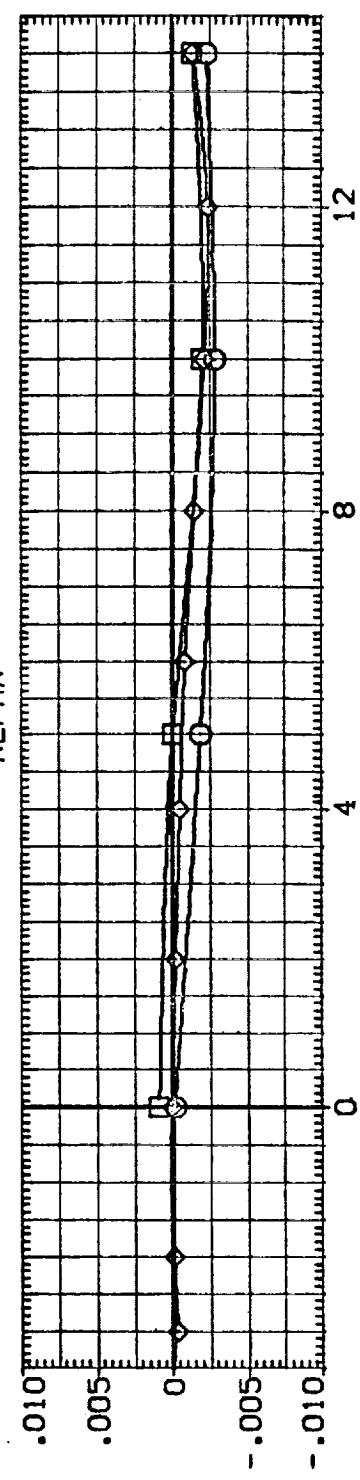
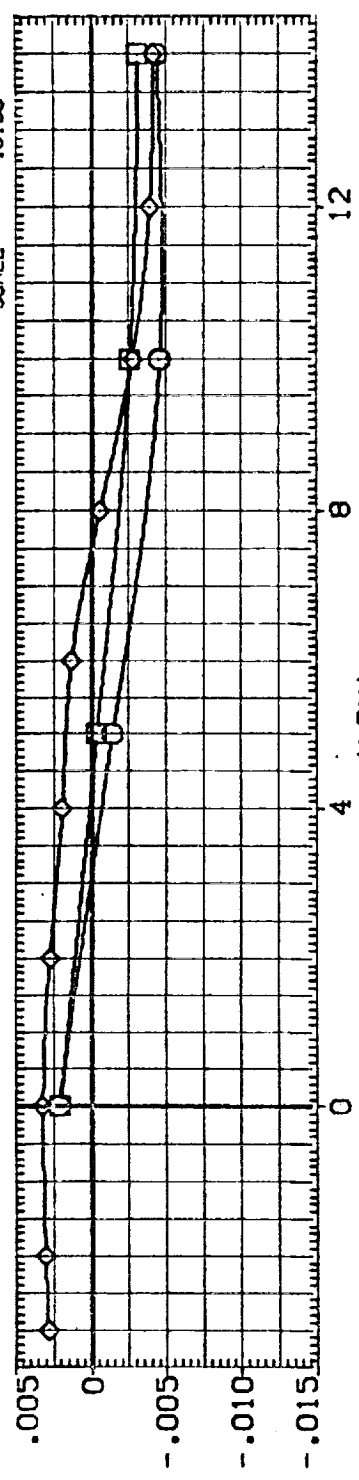


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER008)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRF 12.6255 IN.
					YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

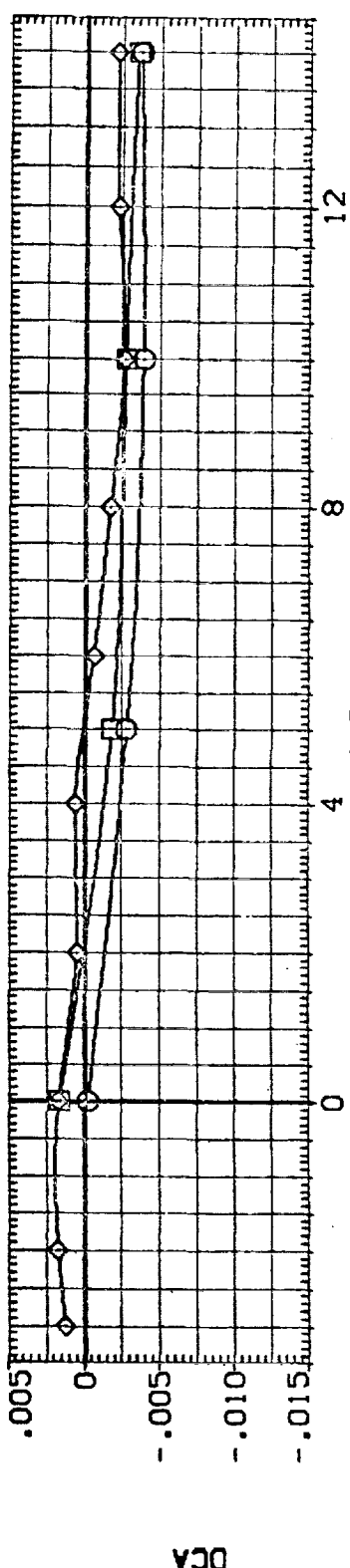
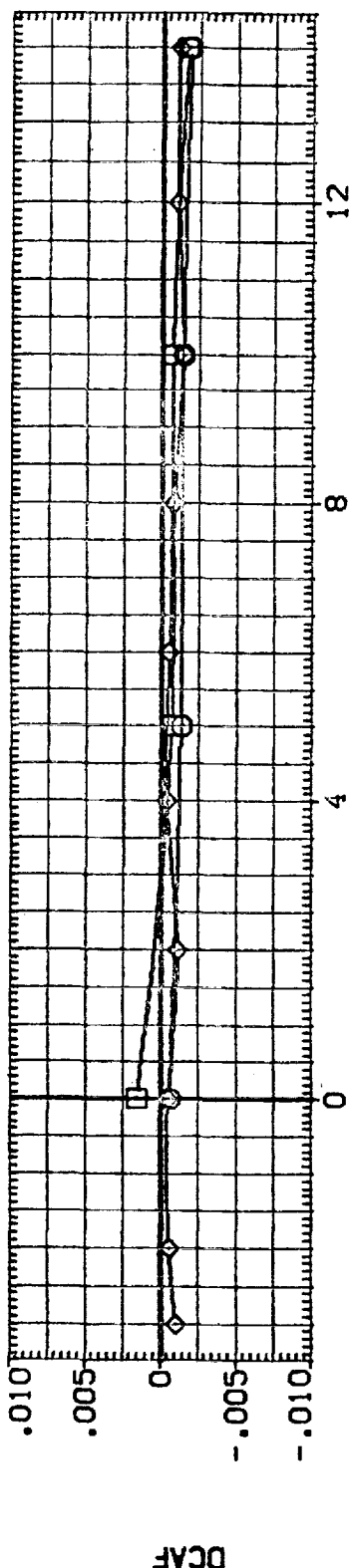
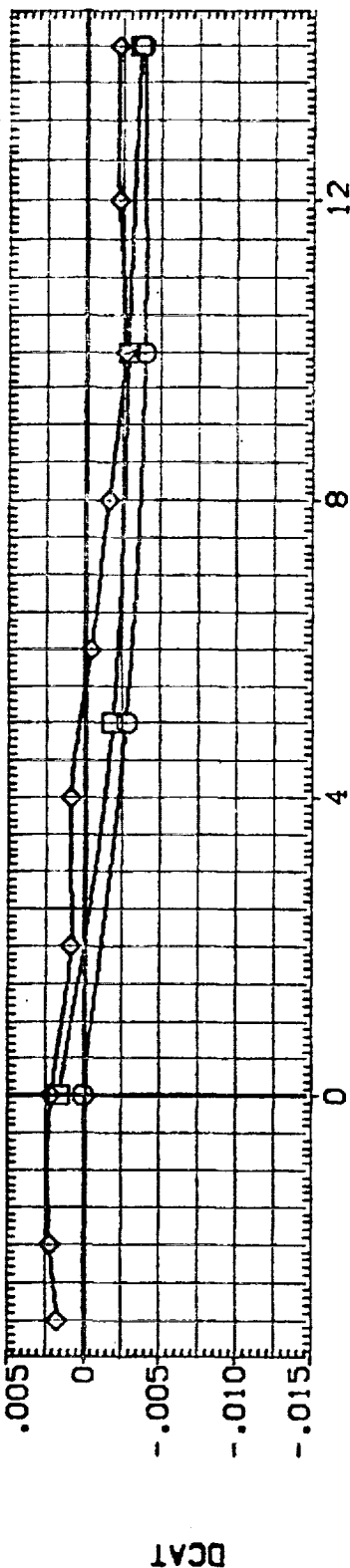


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UERO12) ARC 66-709 0A59 0A11A-(R5 V81)\*STRUT  
 (UERO14) ARC 66-709 0A59 0A11A-(R5 V81)\*STRUT  
 (UERO15) ARC 66-709 0A59 0A11A-(R5 V81)\*STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -3.750 IN.  
 SCALE .0150

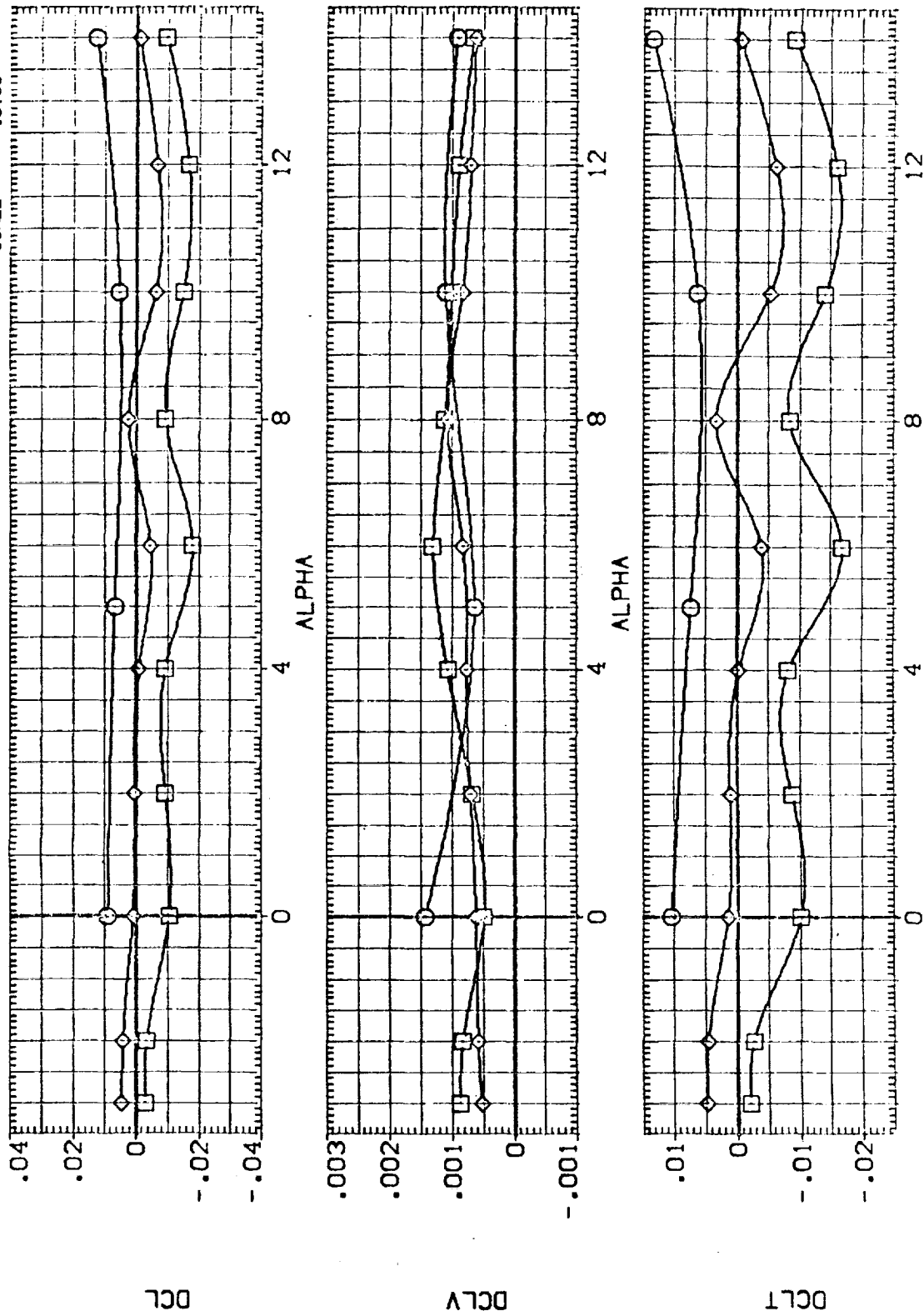


FIG. 8 PITCH TALES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{UER012}	ARC 66-709 DAI1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{UER014}	ARC 66-709 DAI1A-(R5 V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
{UER015}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

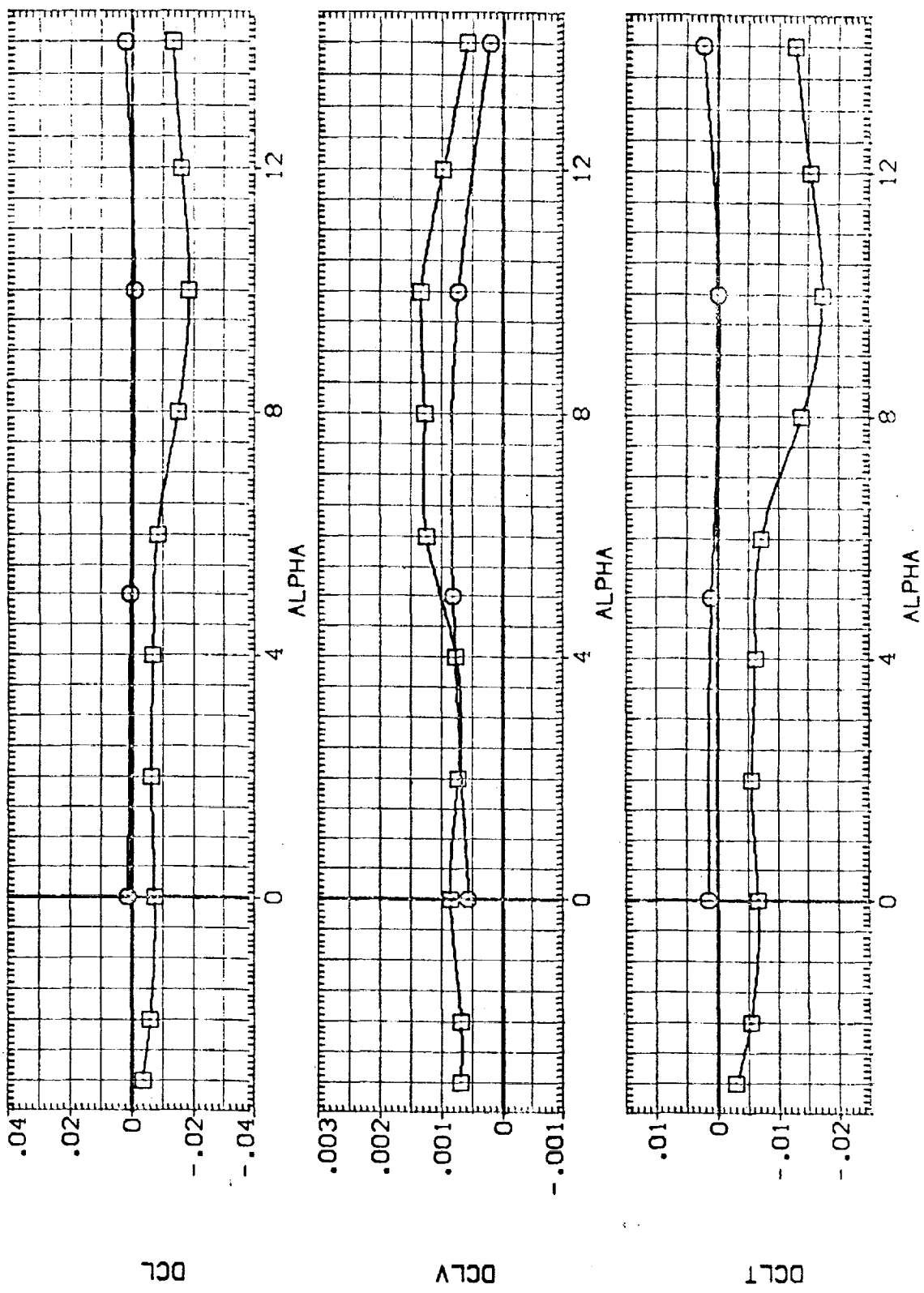


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)

CONFIGURATION DESCRIPTION: ARC 66-709 0A59 0A11A-(PS V8)+STRUT

DATA NOT AVAILABLE  
DATA NOT AVAILABLE

BETA: .000  
ELEVON: .000  
BOFLAP: -11.700  
16.300  
.000

REFERENCE INFORMATION:  
SREF: .6053 50.FT.  
LREF: .5935 FT.  
BREF: 1.1710 FT.  
XMRP: 12.6255 IN.  
YMRP: .0000 IN.  
ZMRP: -.3750 IN.  
SCALE: .0150

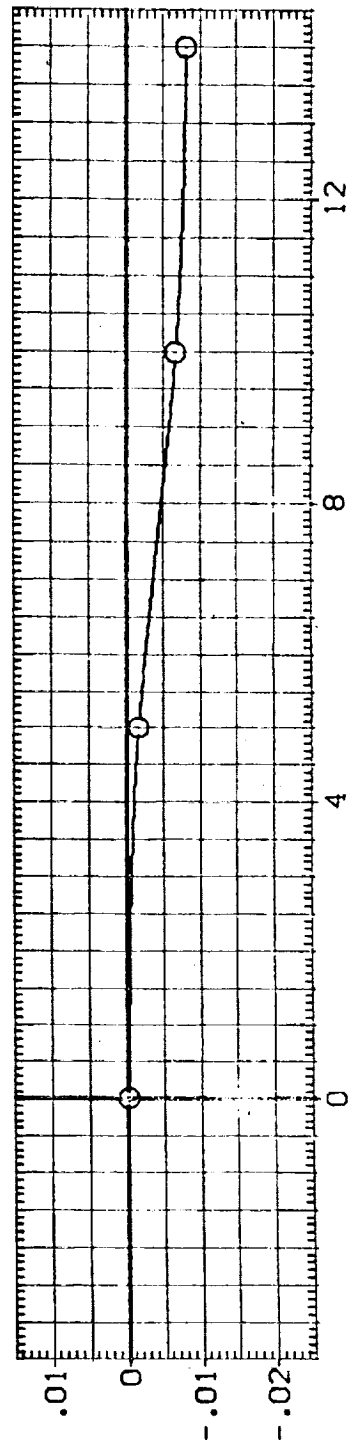
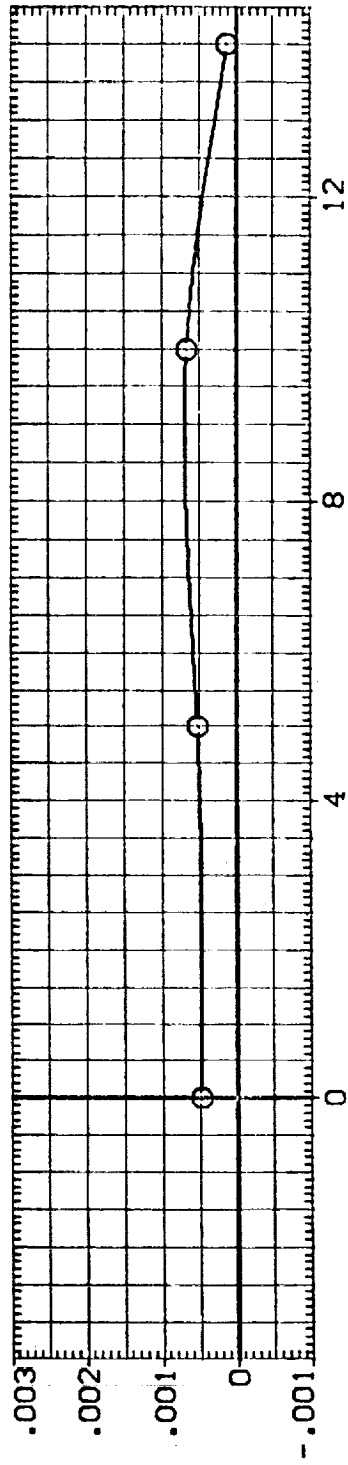
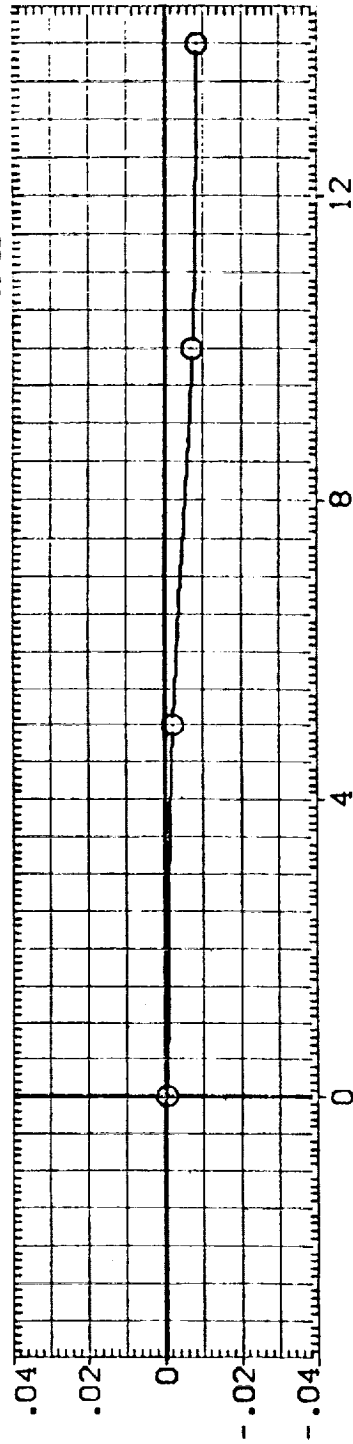
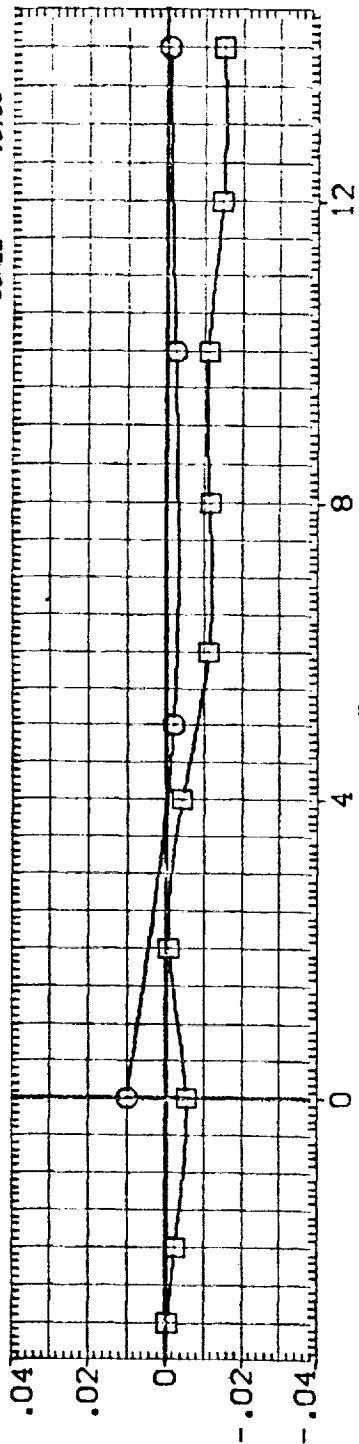


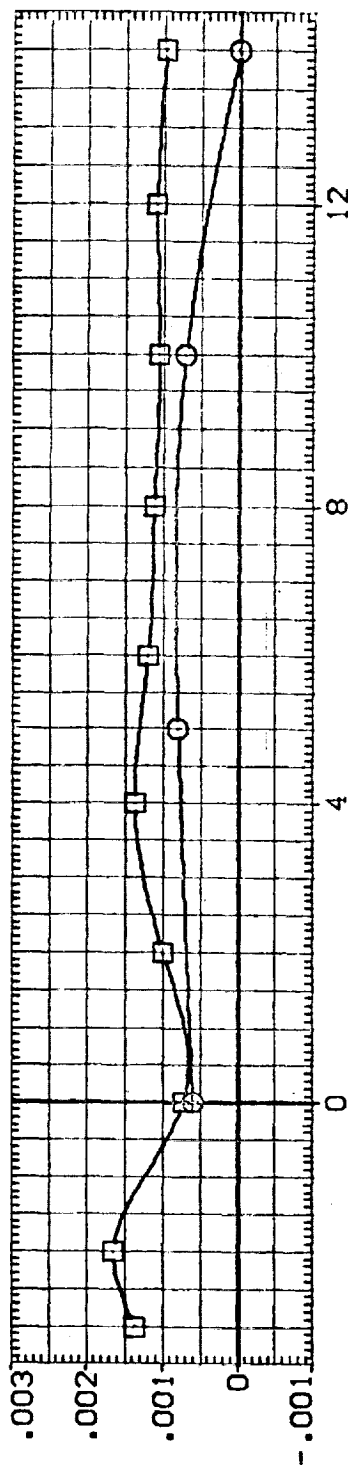
FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

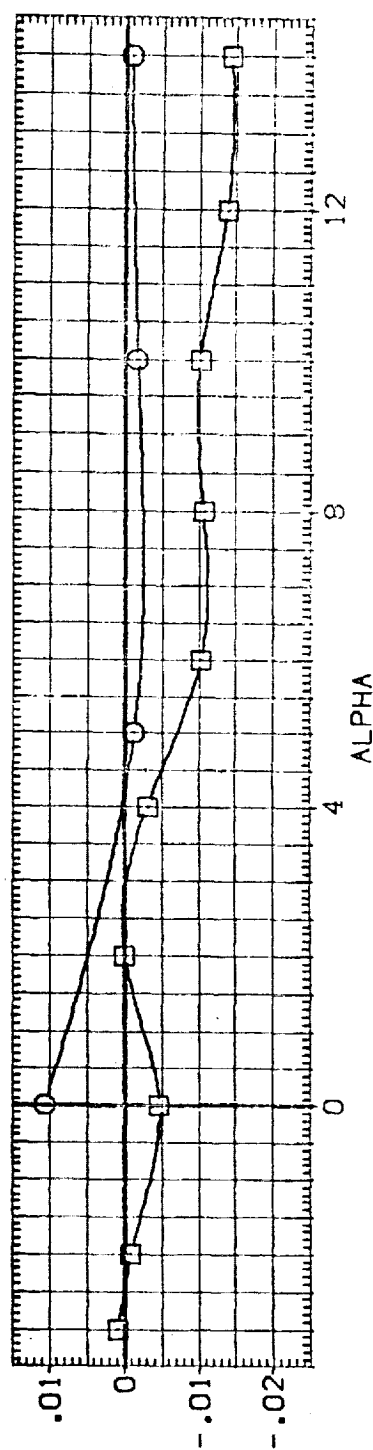
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 OAS9 DALLA-(RS V81)+STRUT	.000	.000	-11.700	SREF -6053 SQ.FT.
(UERO14)	ARC 66-709 OAS9 DALLA-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



DCL



DCLV



DCLT

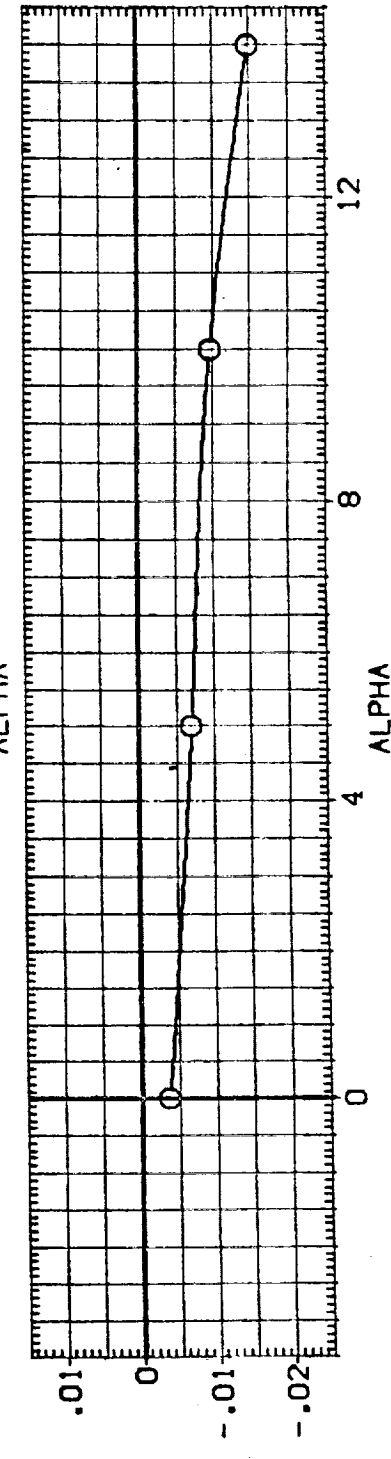
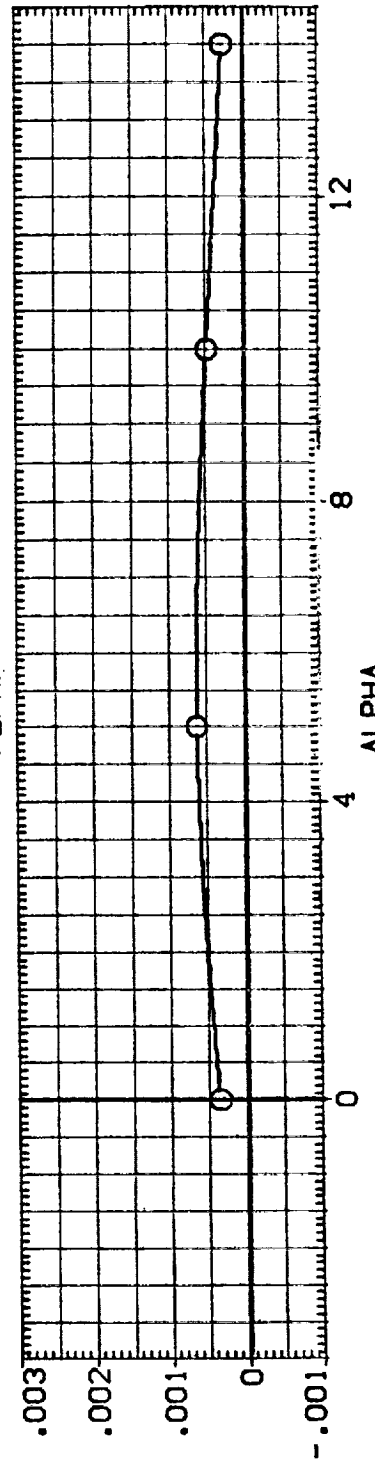
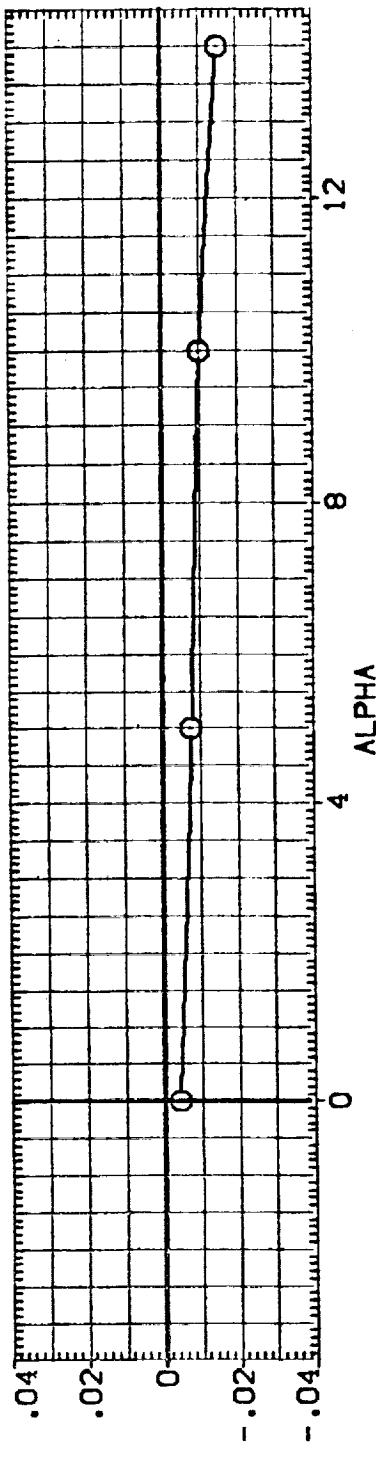
FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC SS-709 OAS9 OAL1A-(RS V81)-STRUT  
 (UER014) DATA NOT AVAILABLE  
 (UER015) DATA NOT AVAILABLE

BETA ELEVON BDFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150



DCL

DCLV

DCLT

FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{UERO12} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

{UERO14} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

{UERO15} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

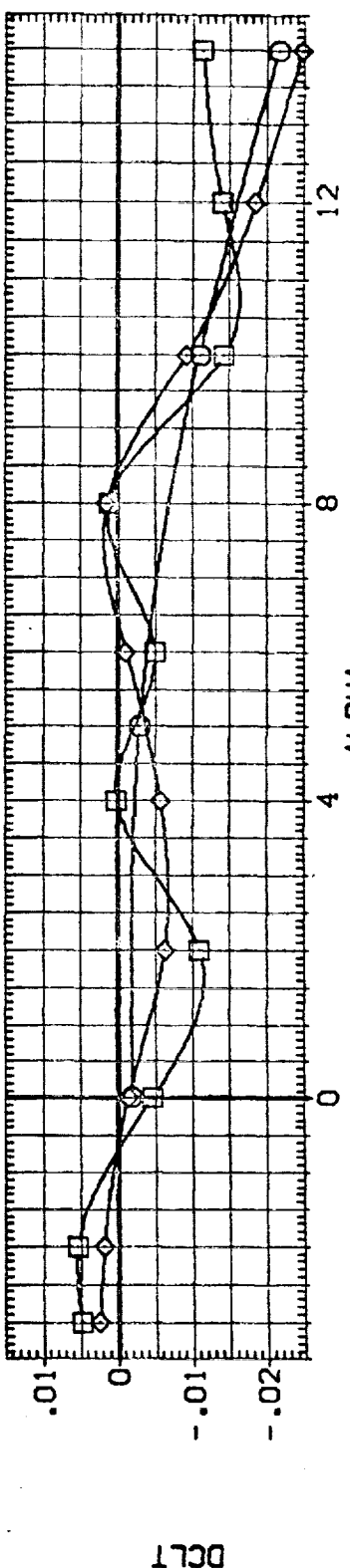
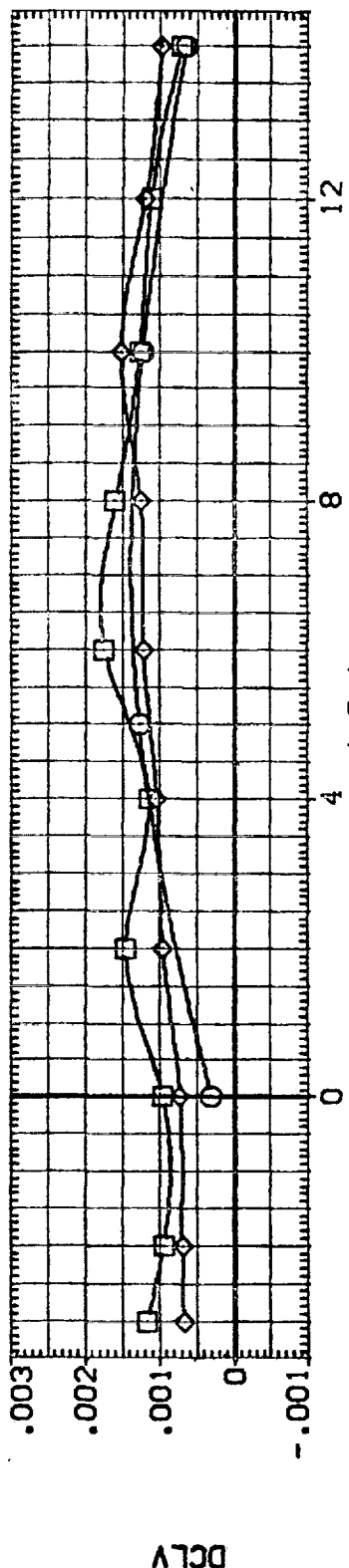
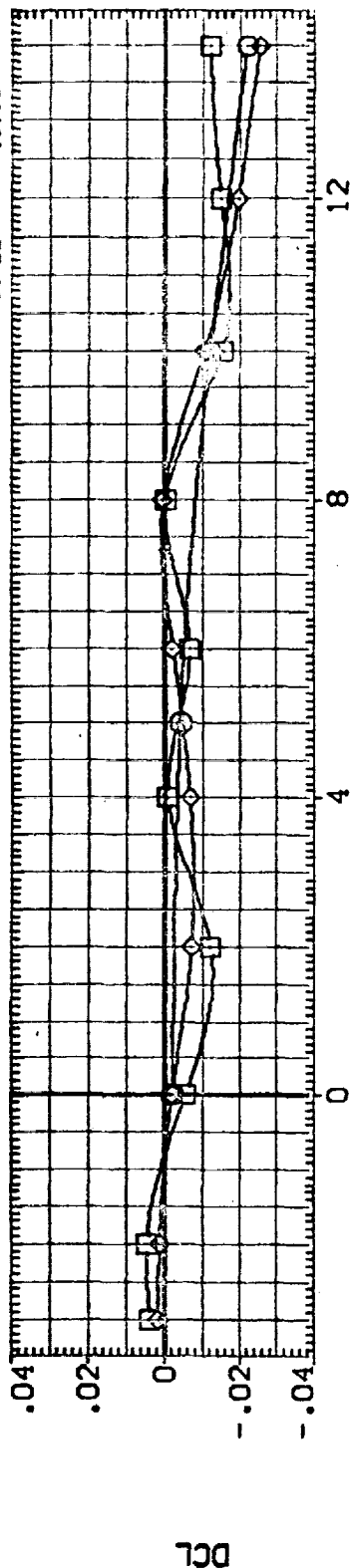


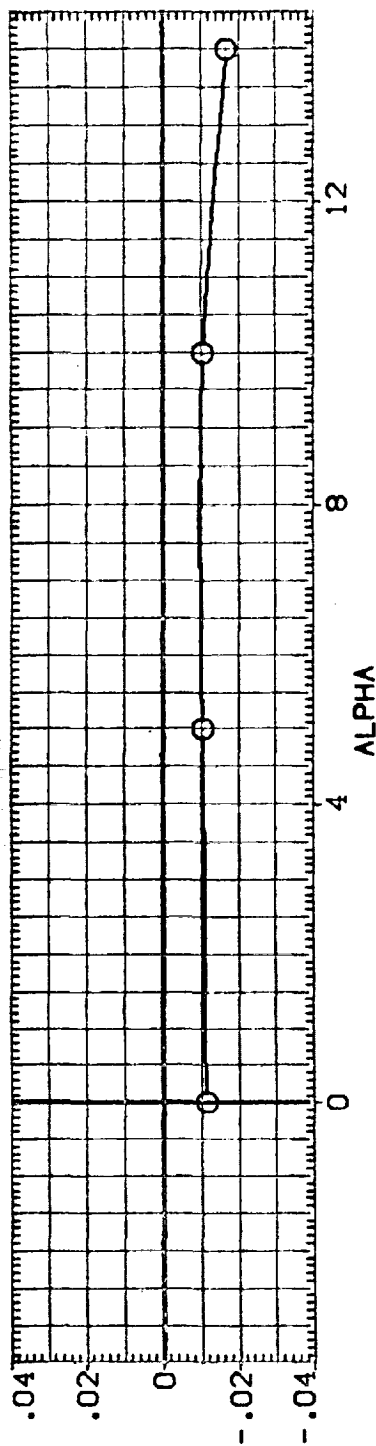
FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

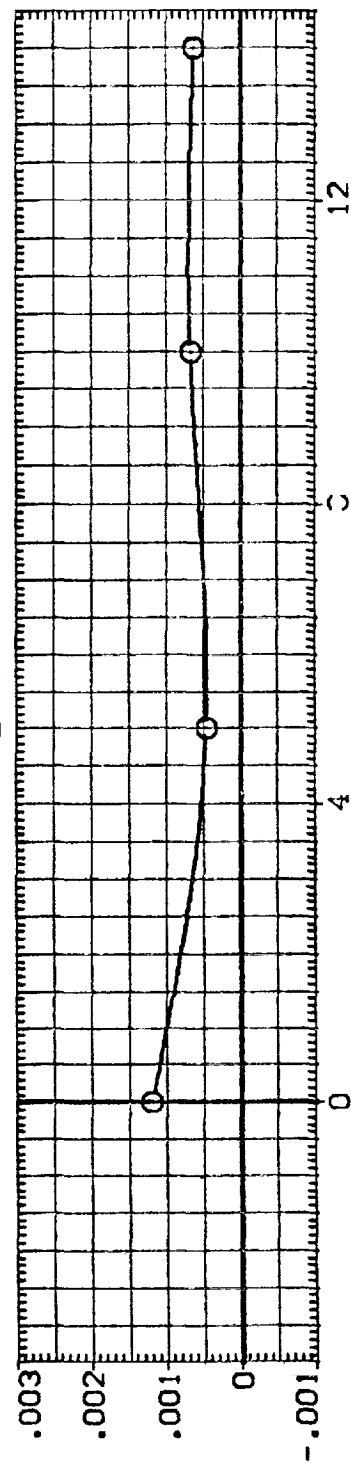
DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)  
 CONFIGURATION DESCRIPTION: ARC 66-709 OAS9 GALLIA-(R5 V03)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700  
 .000  
 .000  
 .000

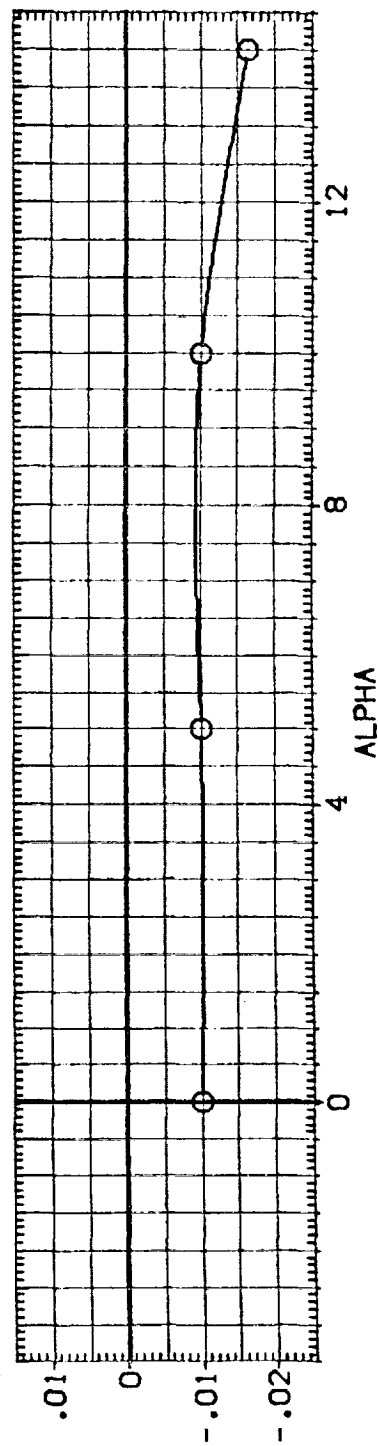
REFERENCE INFORMATION:  
 SREF: .8053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150



DCL



DCLV



DCLT

FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBO.	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LERO12)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(LERO14)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(LERO15)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

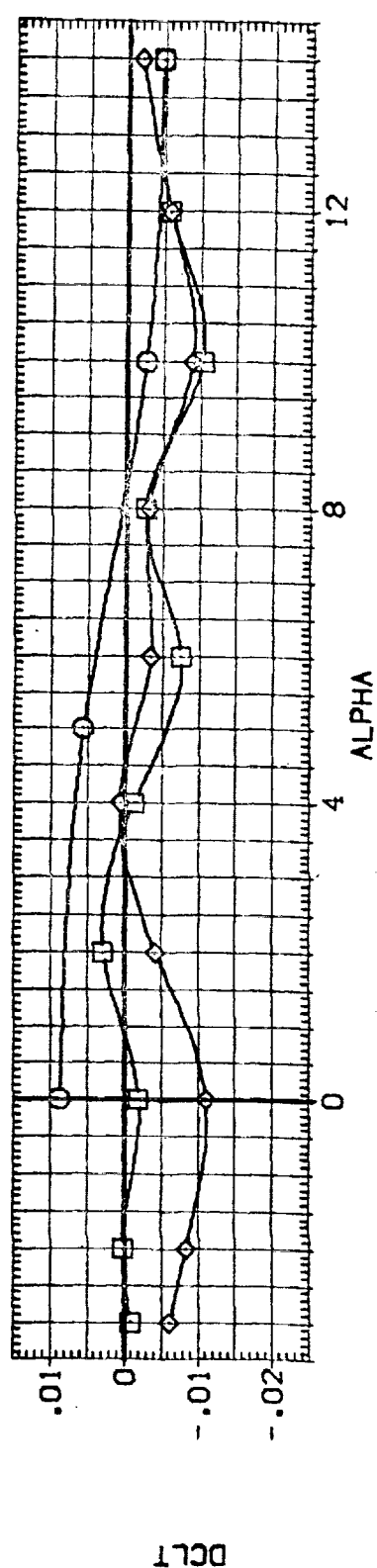
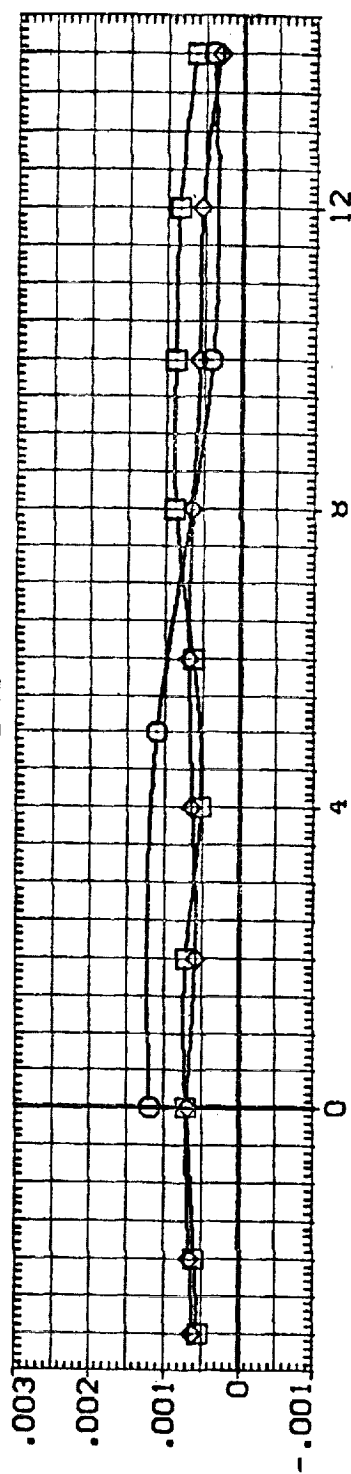
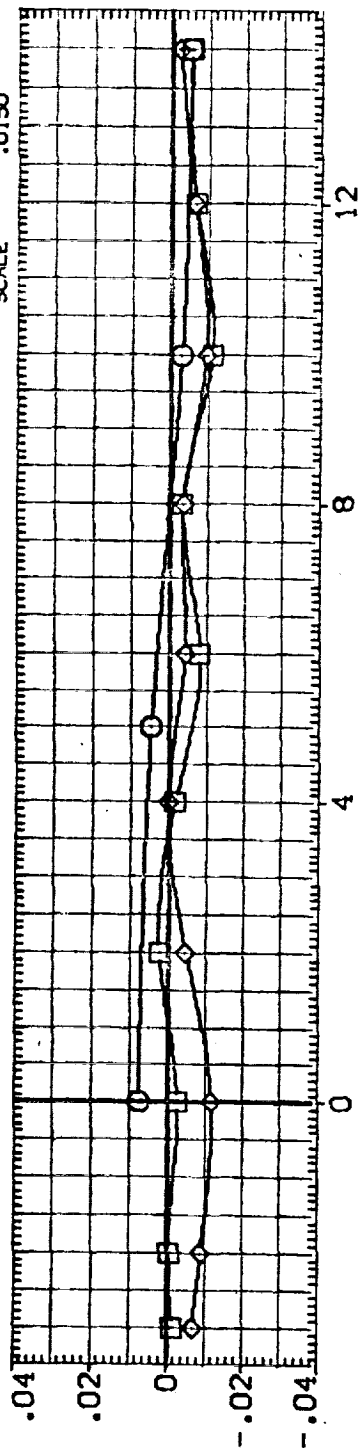


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UERO12) ARC 66-709 0A59 0A11A-(RS V3)+STRUT  
 (UERO14) ARC 66-703 0A59 0A11A-(RS V3)+STRUT  
 (UERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

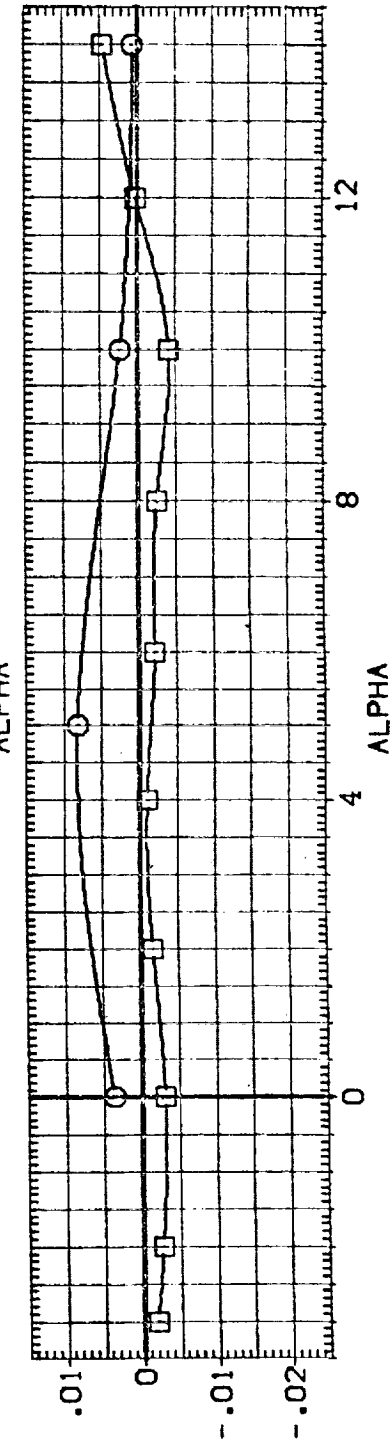
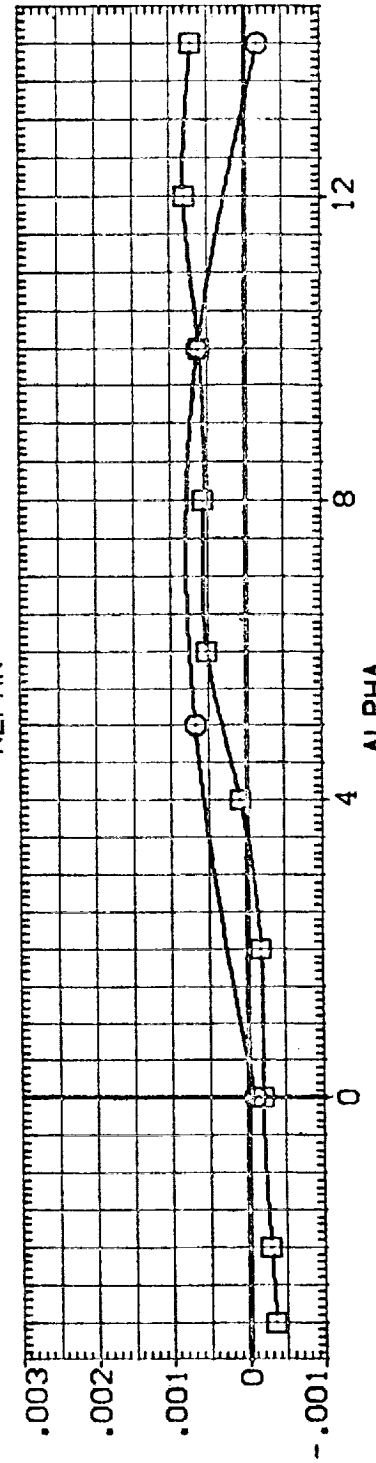
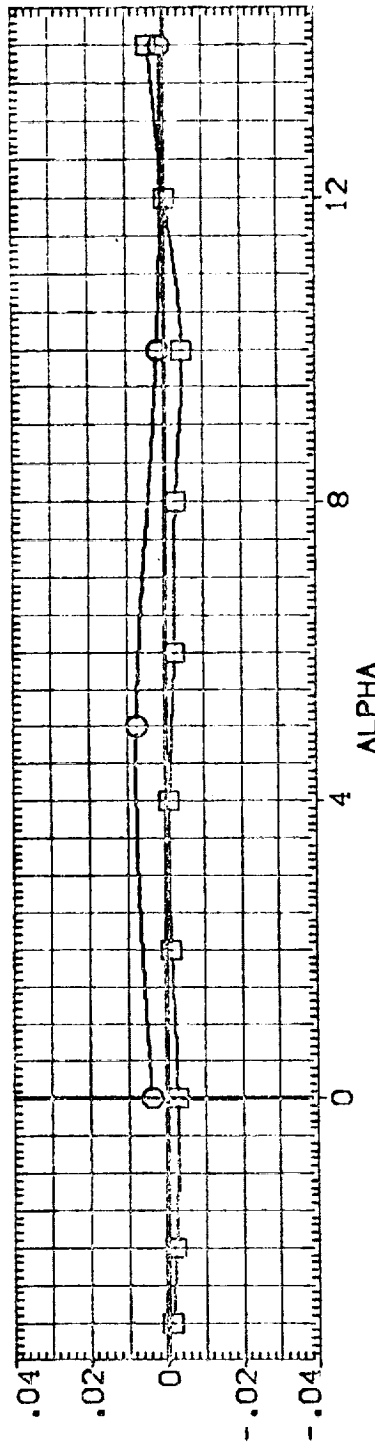


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT  
 (UER014) ARC 66-709 0A59 0A11A-(RS V81)+STRUT  
 (UER015) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF 6053 SQ.FT.  
 LREF 5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

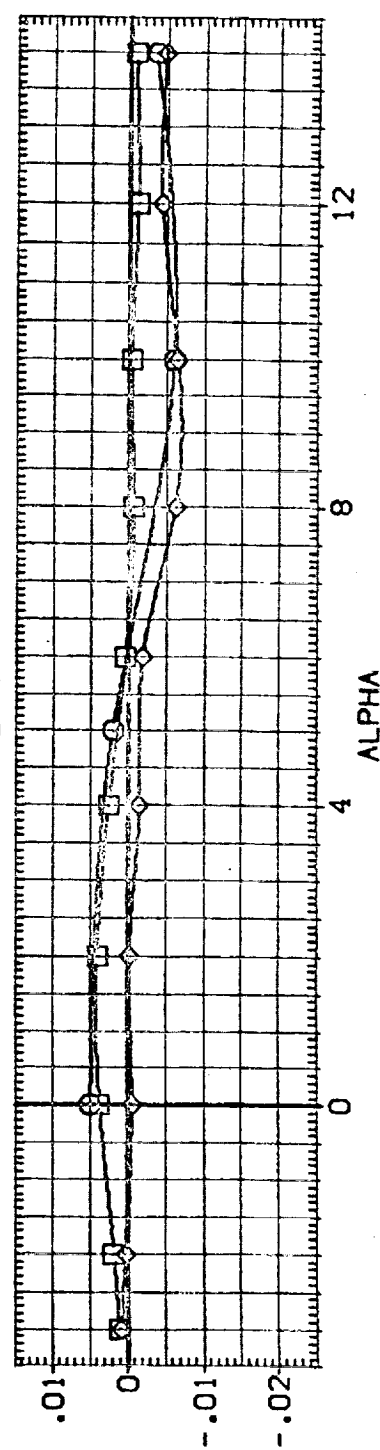
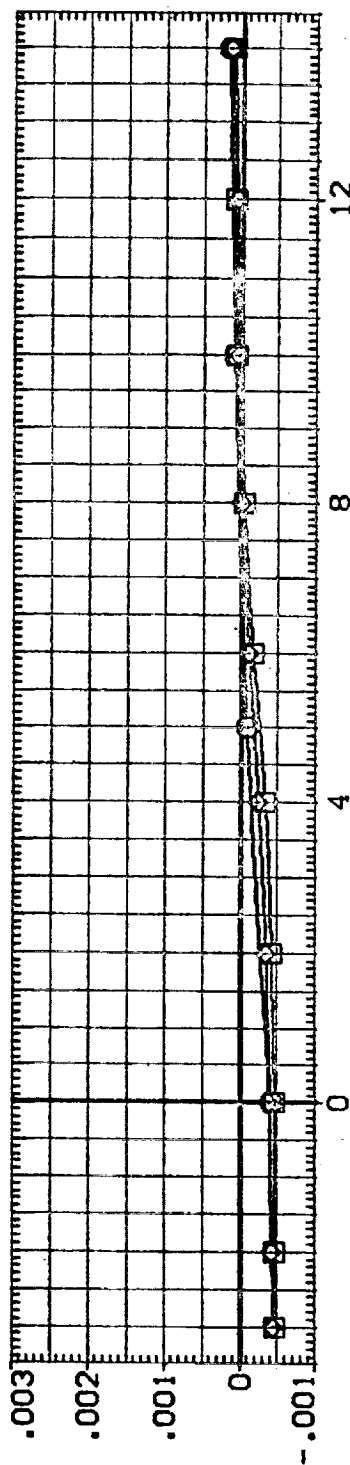
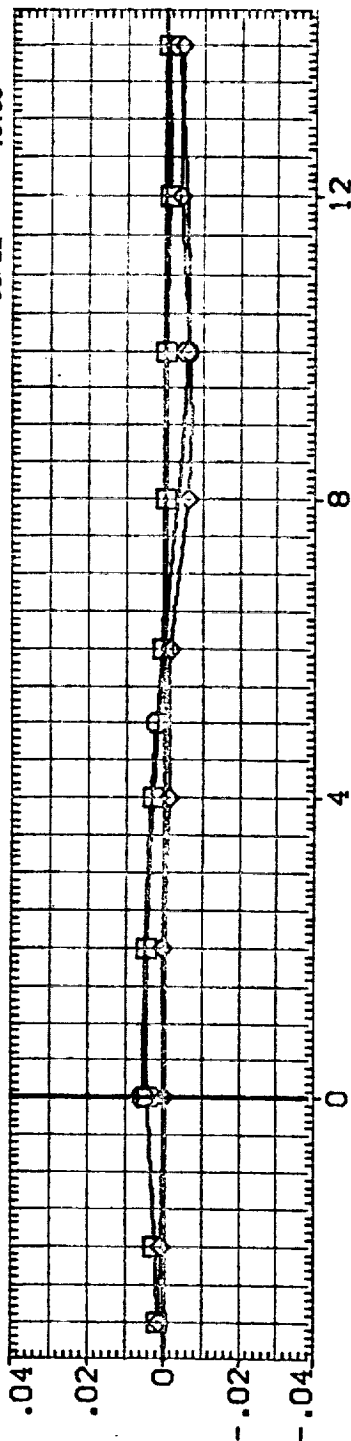


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(UER012) ARC 66-709 0A59 0A11A-(RS V3)+STRUT

(UER013) ARC 66-709 0A59 0A11A-(RS V3)+STRUT

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

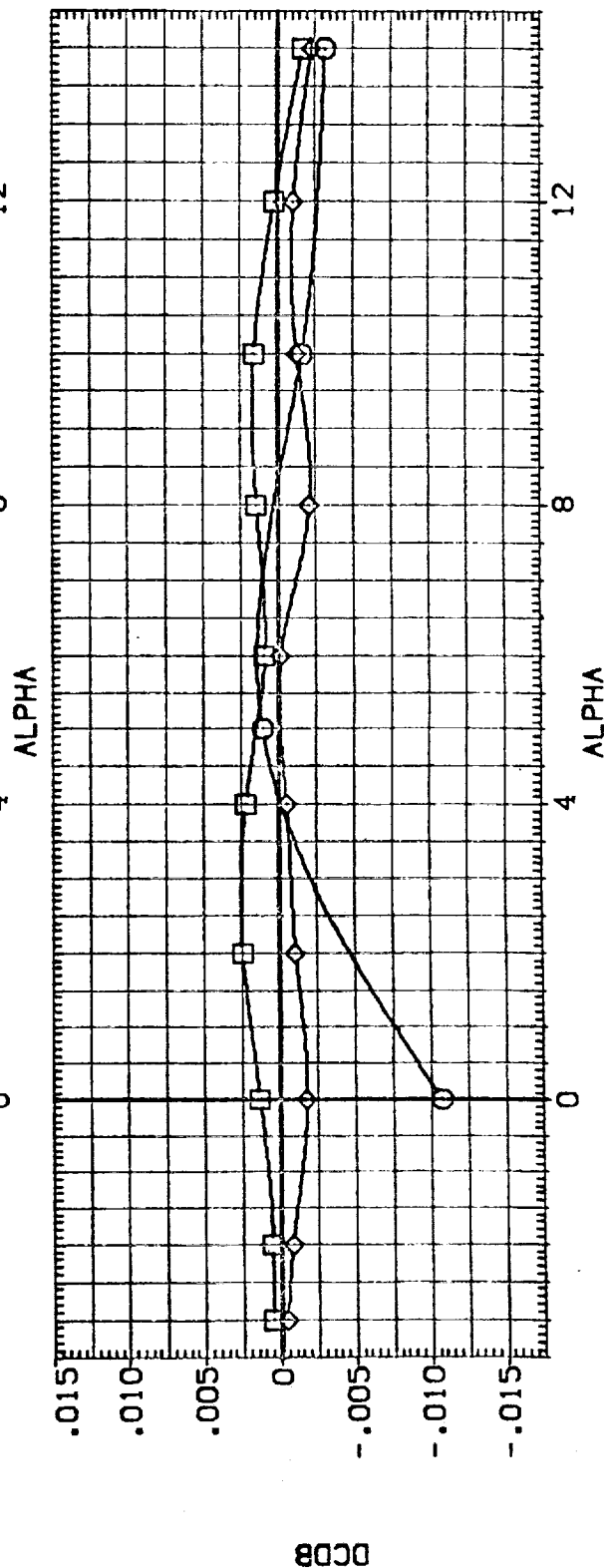
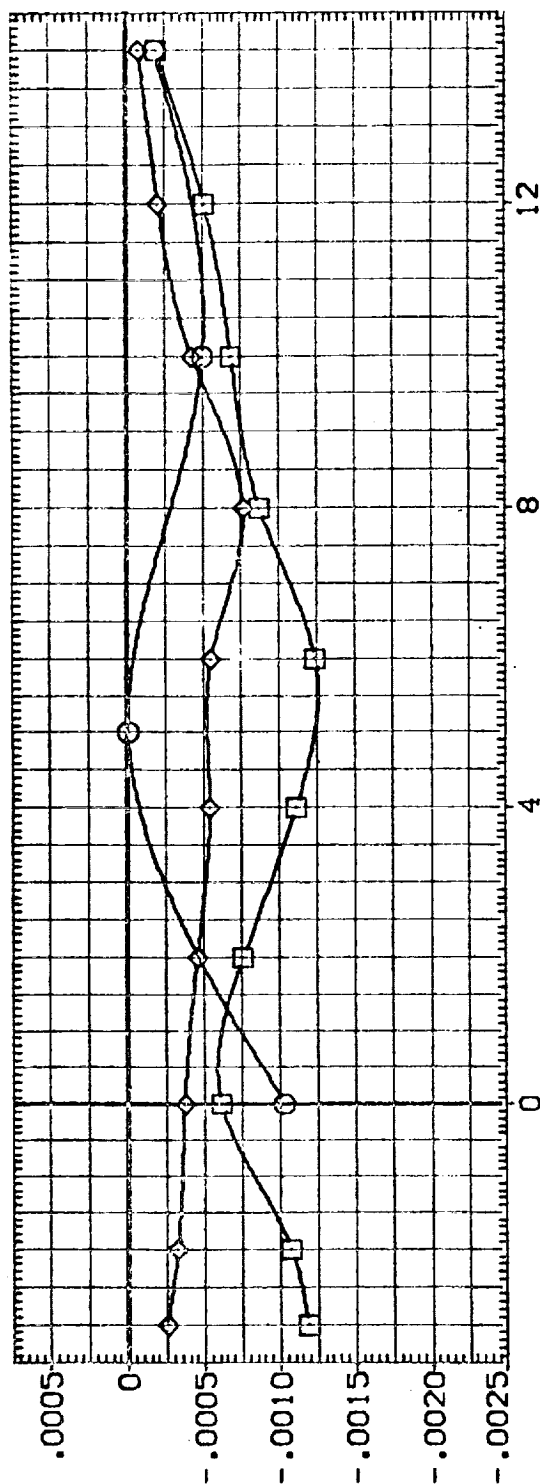


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL: (UERO12)  
 (UERO14)  
 (UERO15)

CONFIGURATION DESCRIPTION:  
 ARC 66-709 OAS9 OAL1A-(RS V8)+STRUT  
 ARC 66-709 OAS9 OAL1A-(RS V8)+STRUT  
 DATA NOT AVAILABLE

BETA: .000  
 .000  
 .000

ELEVON: .000  
 .000  
 .000

BOFLAP: -11.700  
 16.300  
 .000

REFERENCE INFORMATION:  
 SREF: .6053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

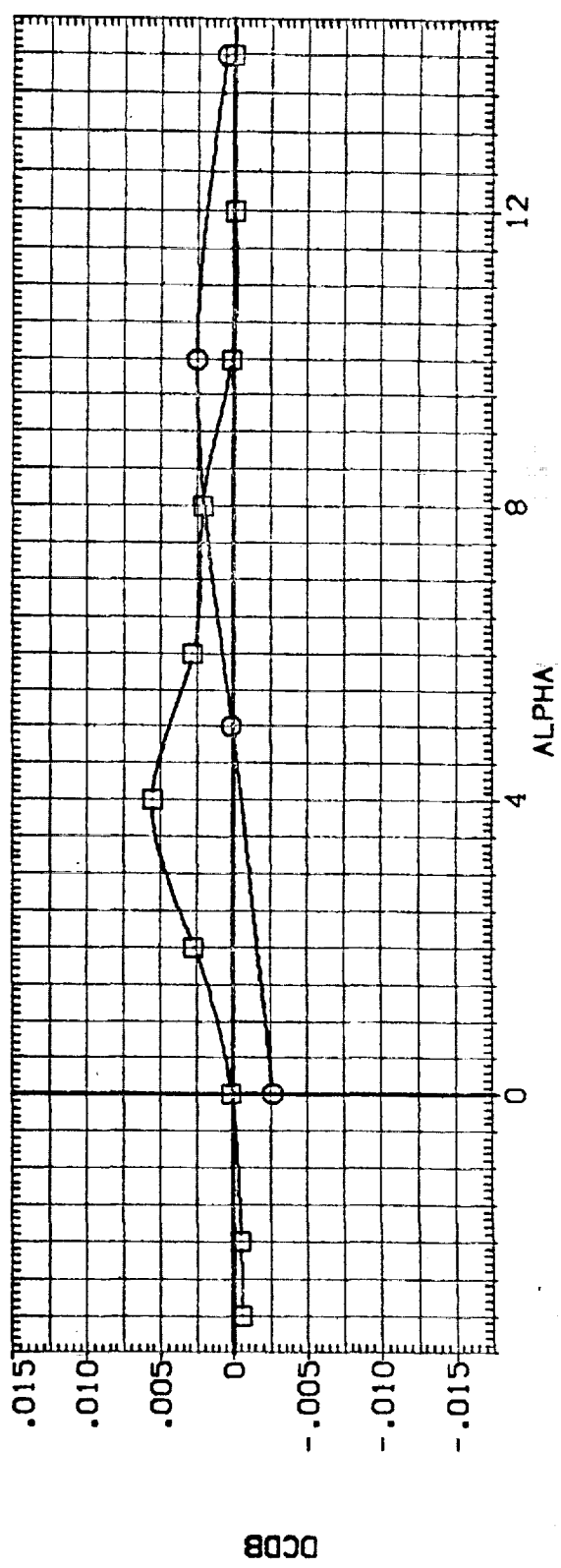
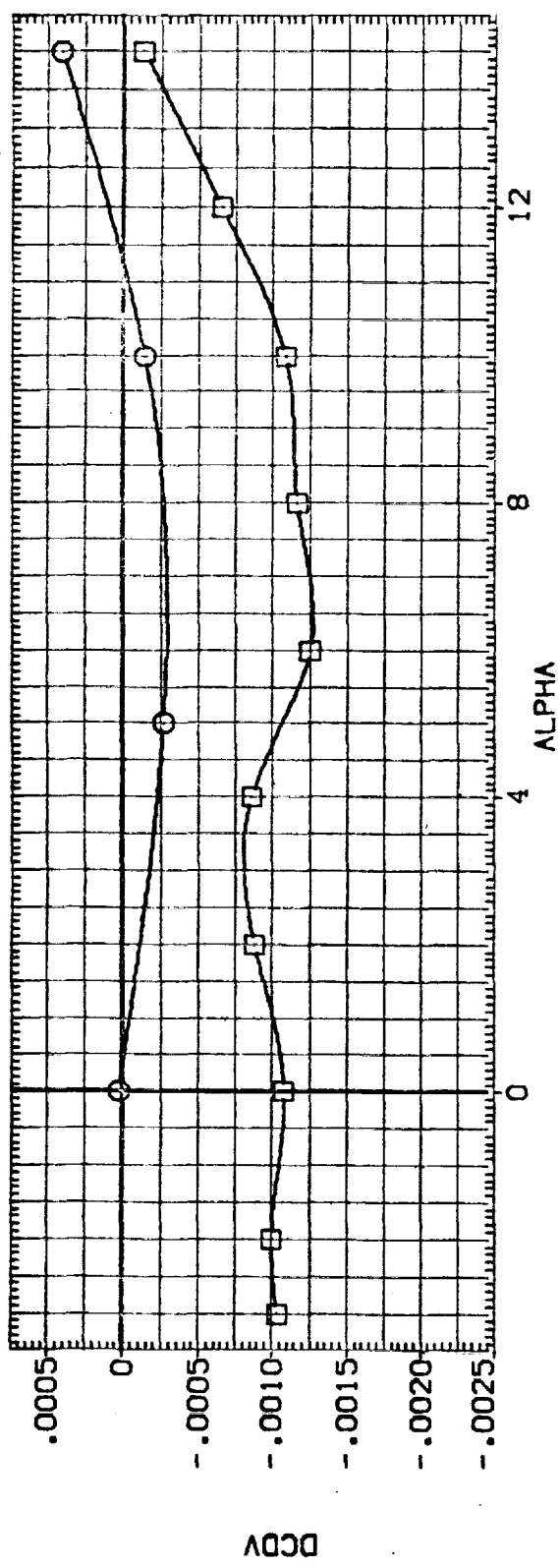


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER012) ARC 55-709 QAS9 0A11A-(RS V8)-STRUT  
 (UER014) DATA NOT AVAILABLE  
 (UER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6265 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

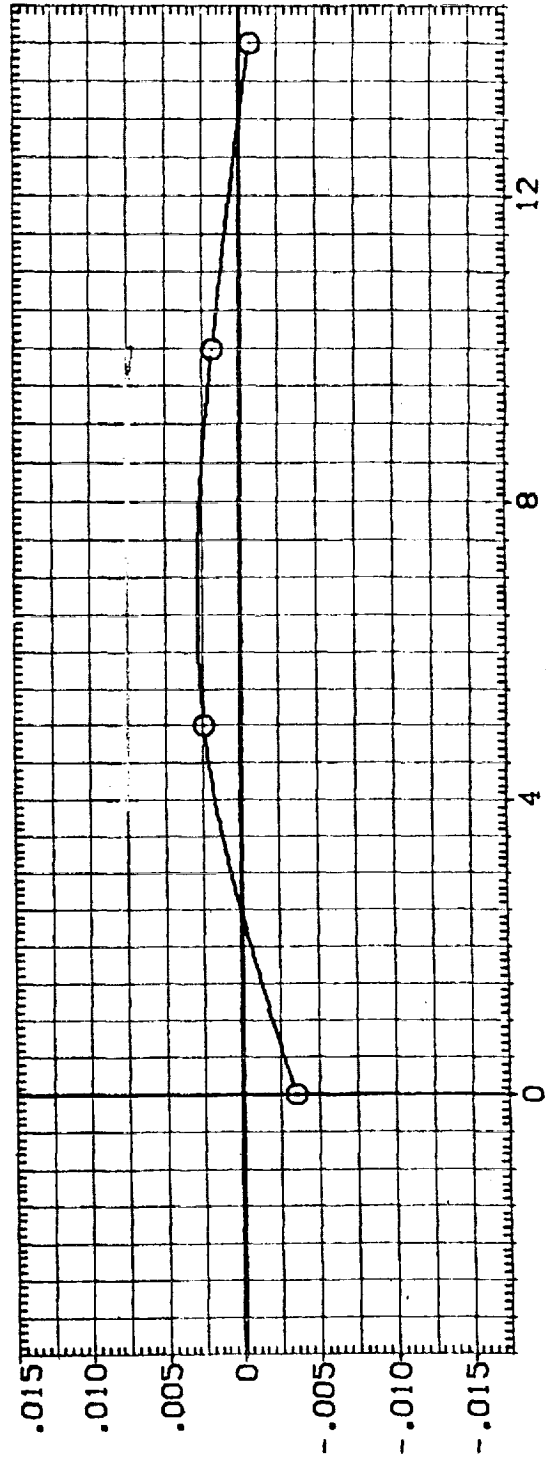
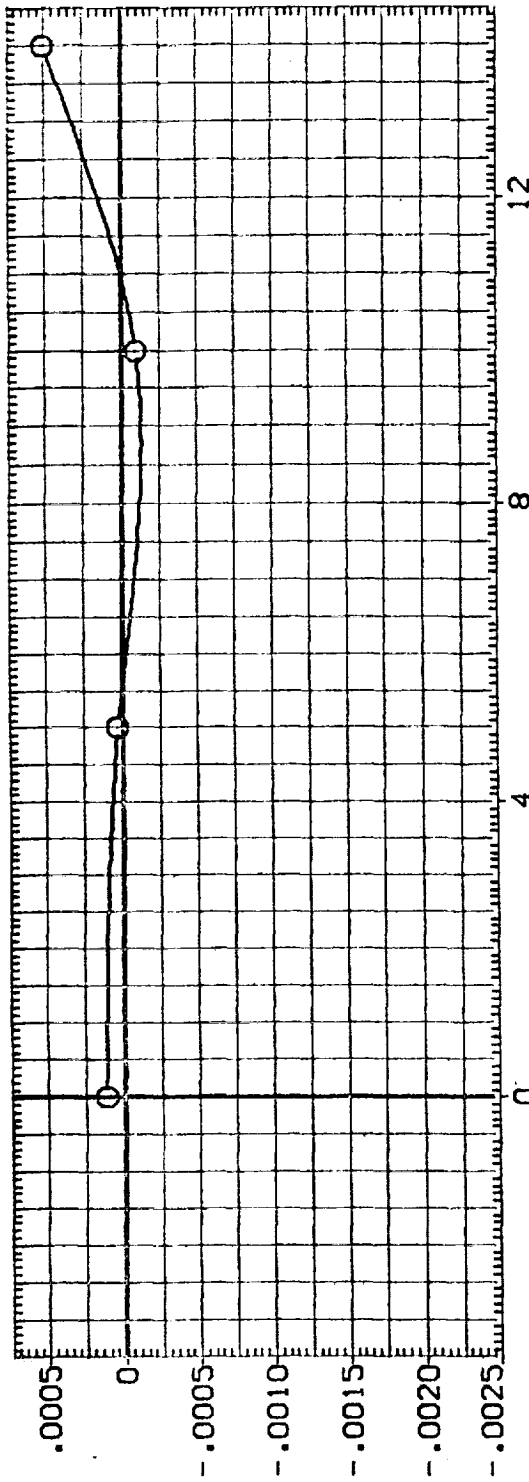


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)  
 CONFIGURATION DESCRIPTION: ARC 66-709 DASS 0A11A-(RS V8)+STRUT  
 DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700

REFERENCE INFORMATION:  
 SREF: .6053 50.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

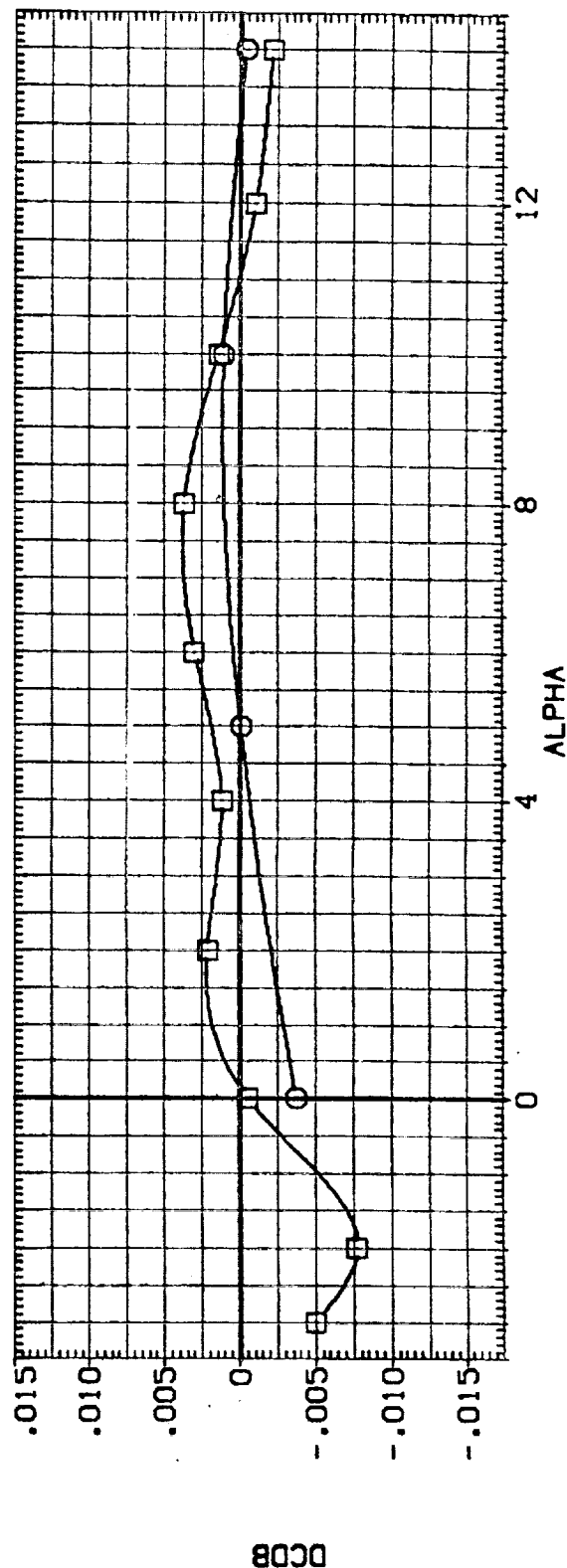
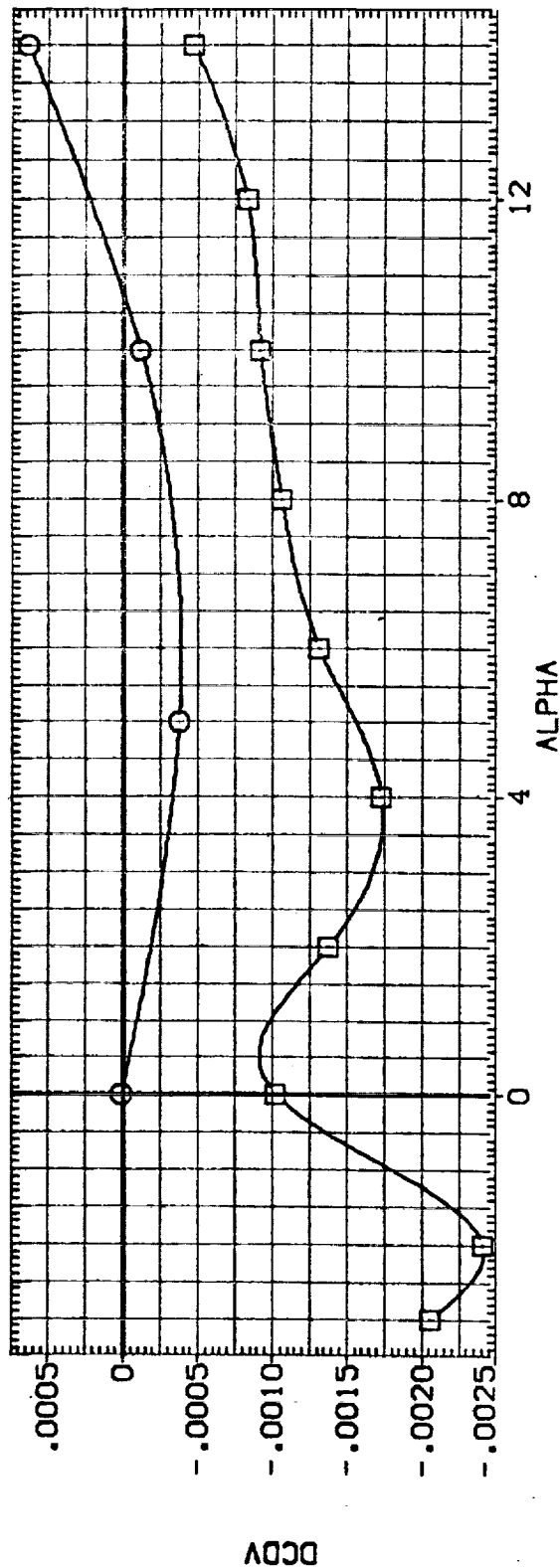


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(D)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 {UERO12} ARC 66-709 0A59 0A11A-(R5 V0)+STRUT  
 {UERO14} DATA NOT AVAILABLE  
 {UERO15} DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5335 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

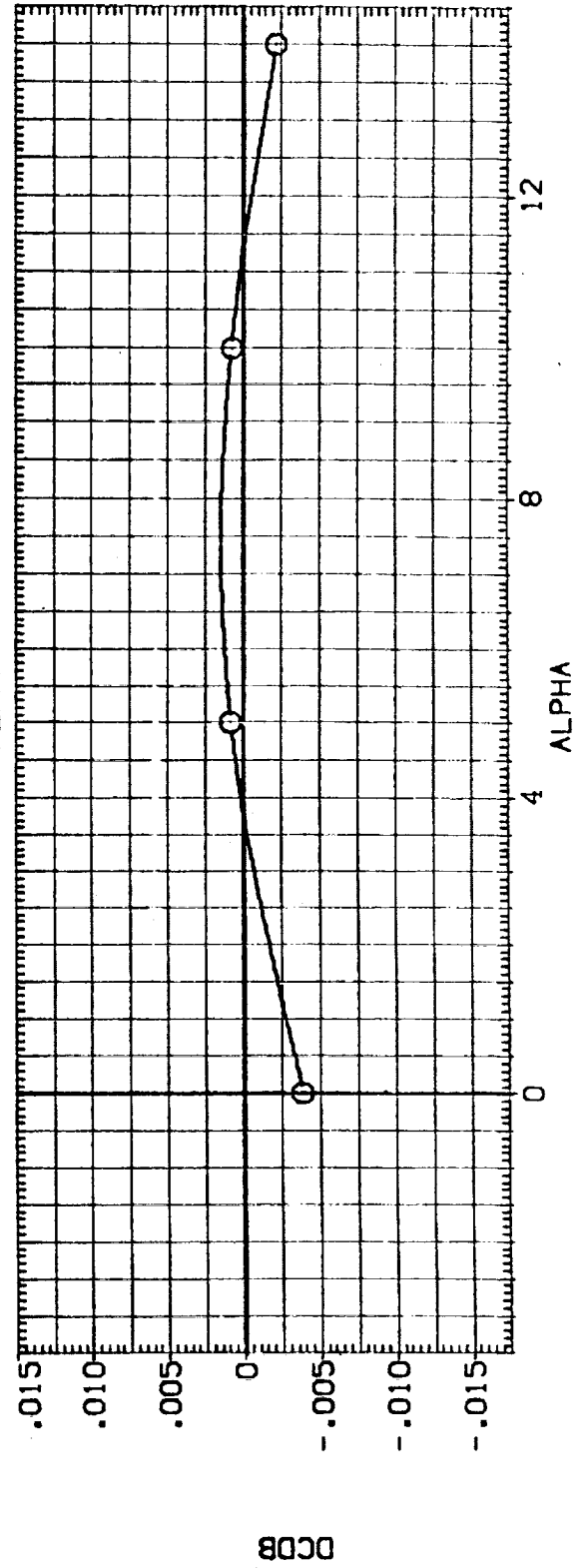
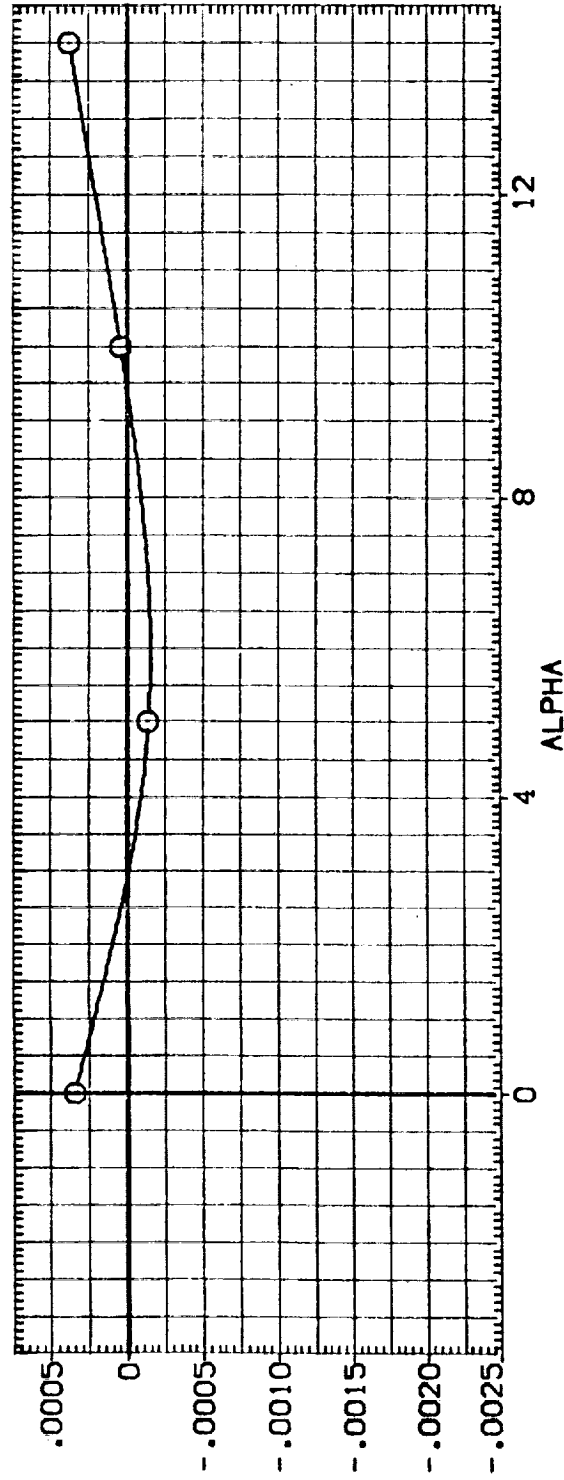


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

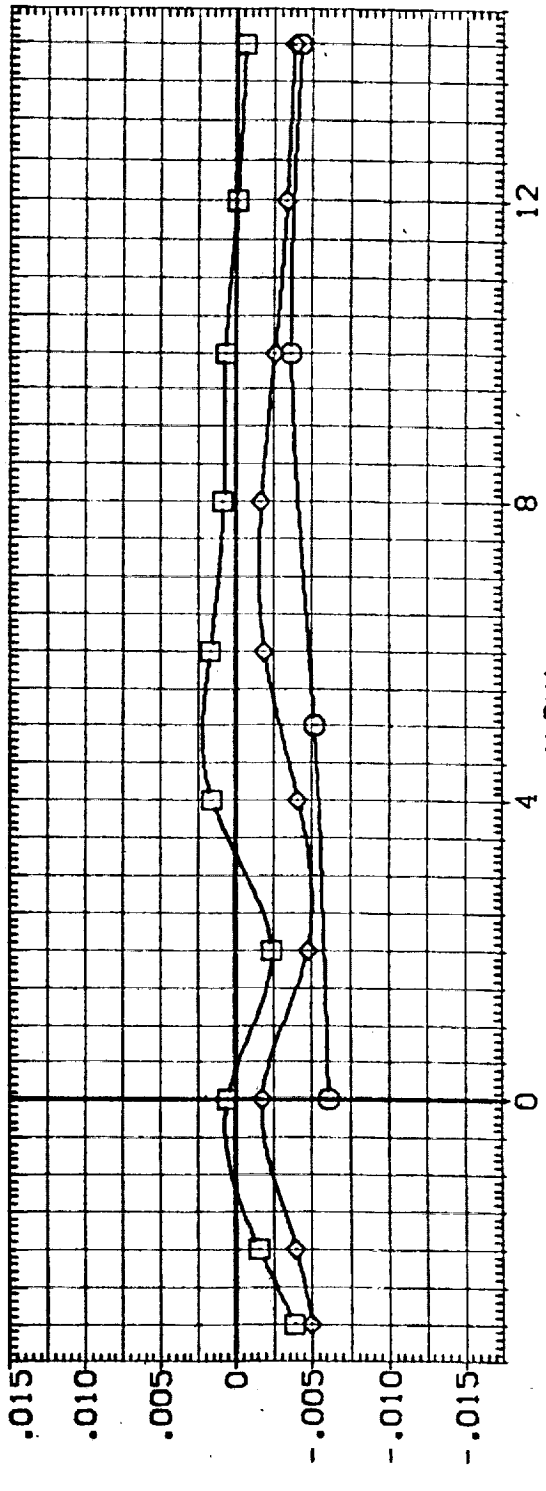
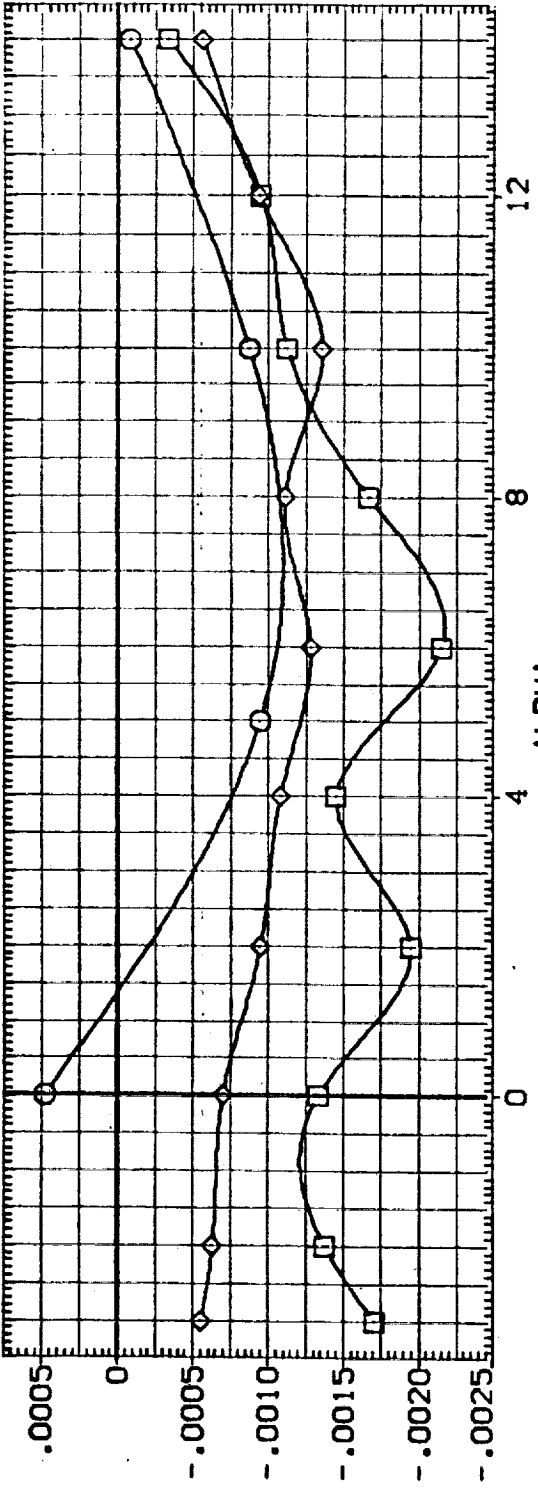


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UERO12) ARC 65-709 DASH 111A-(RS V8)+STRUT  
 (UERO14) DATA NOT AVAILABLE  
 (UERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -3.350 IN.  
 SCALE .0150

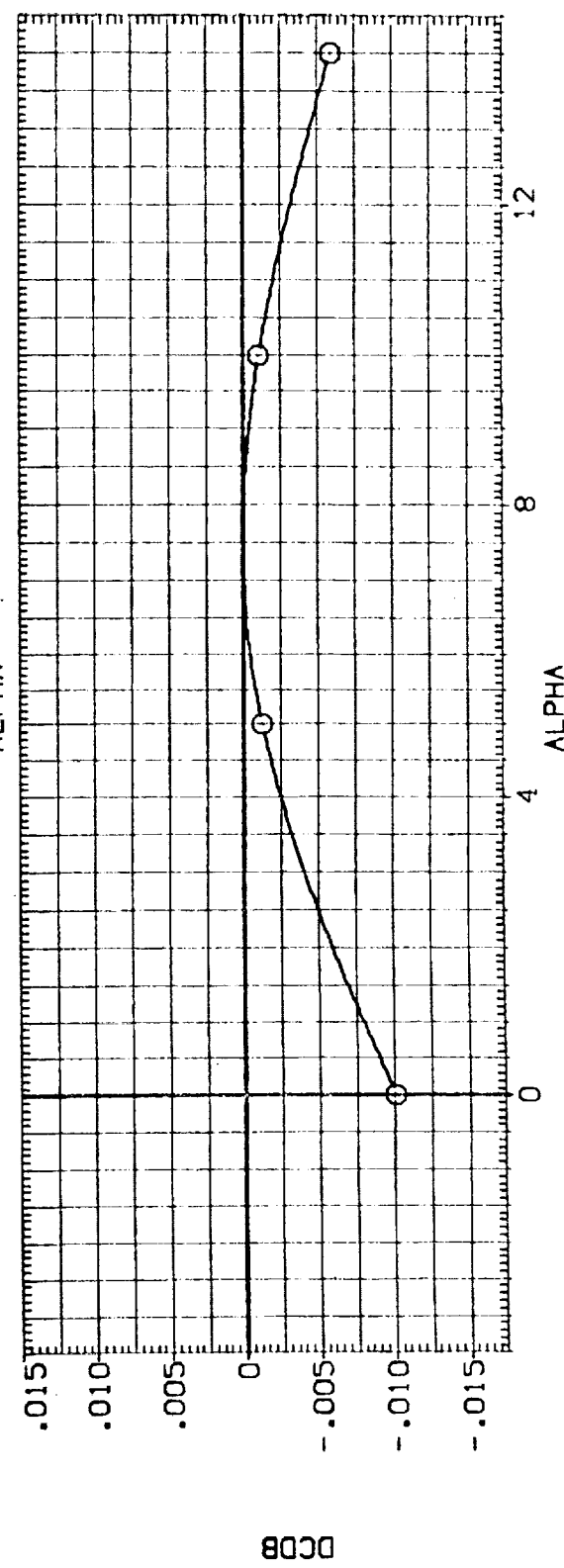
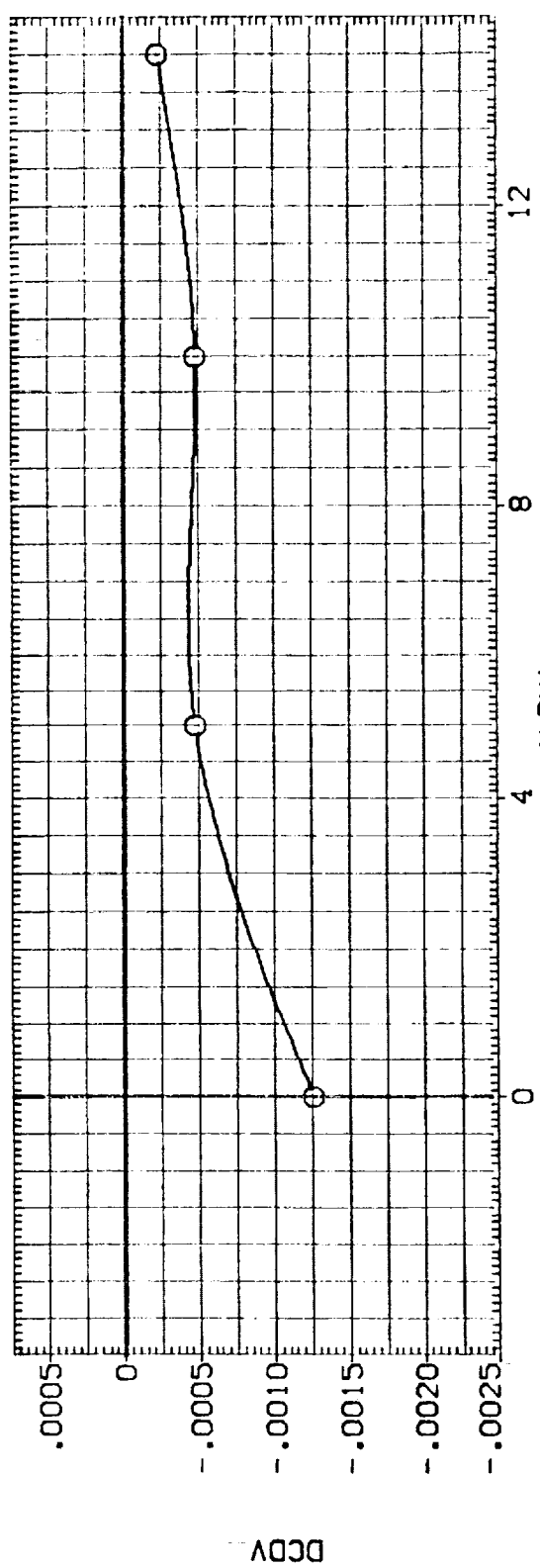


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(GMACH = .95

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-3.750 IN.
SCALE	.0150

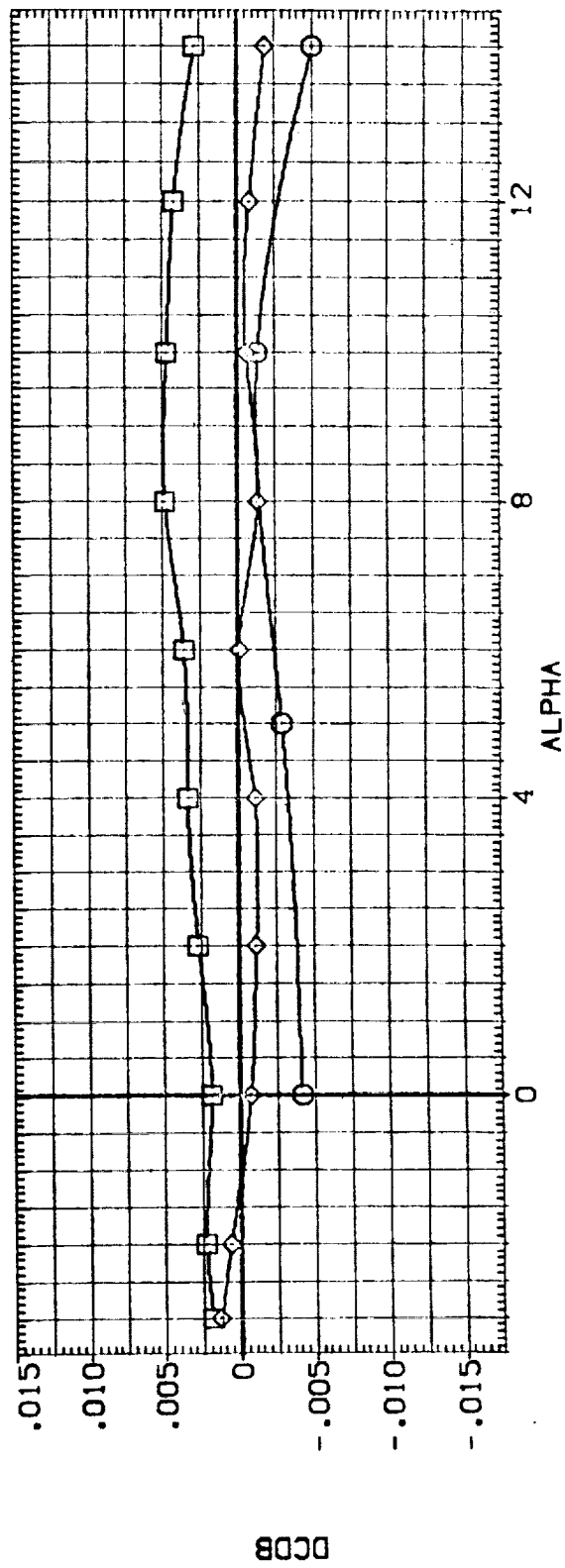


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

$$[CH]_{MACH} = 1.20$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.0000 IN.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.0050 IN.
					SCALE .0050

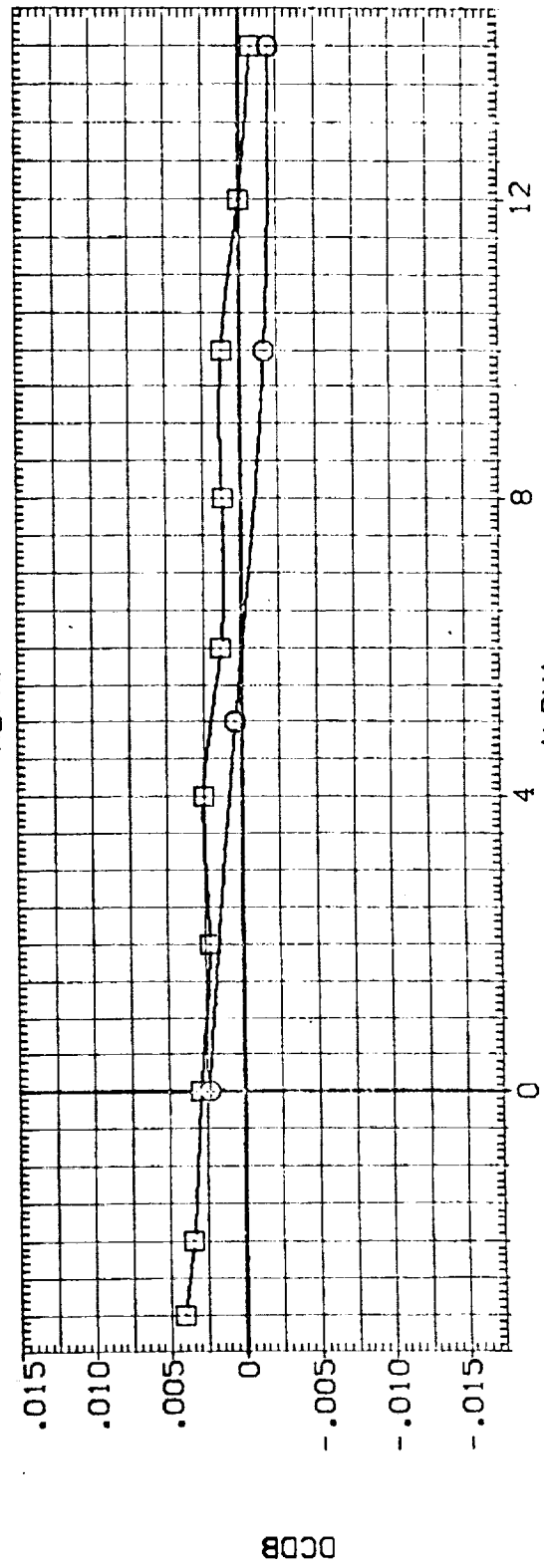
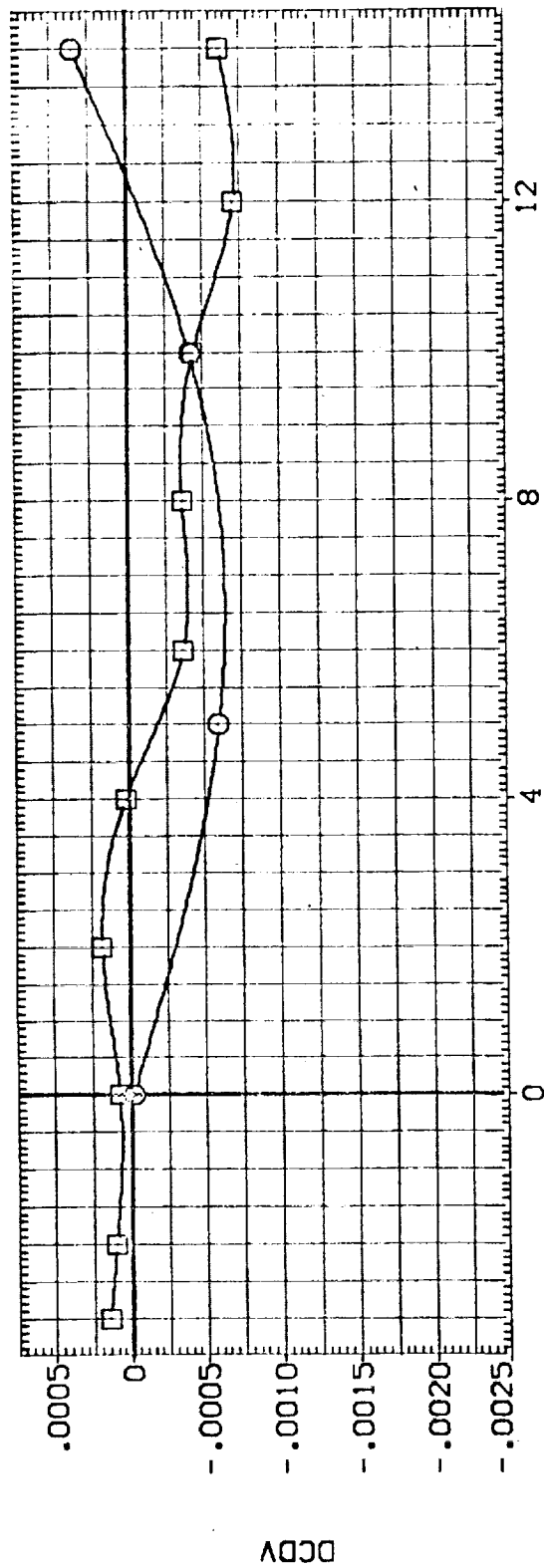


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 SQ.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

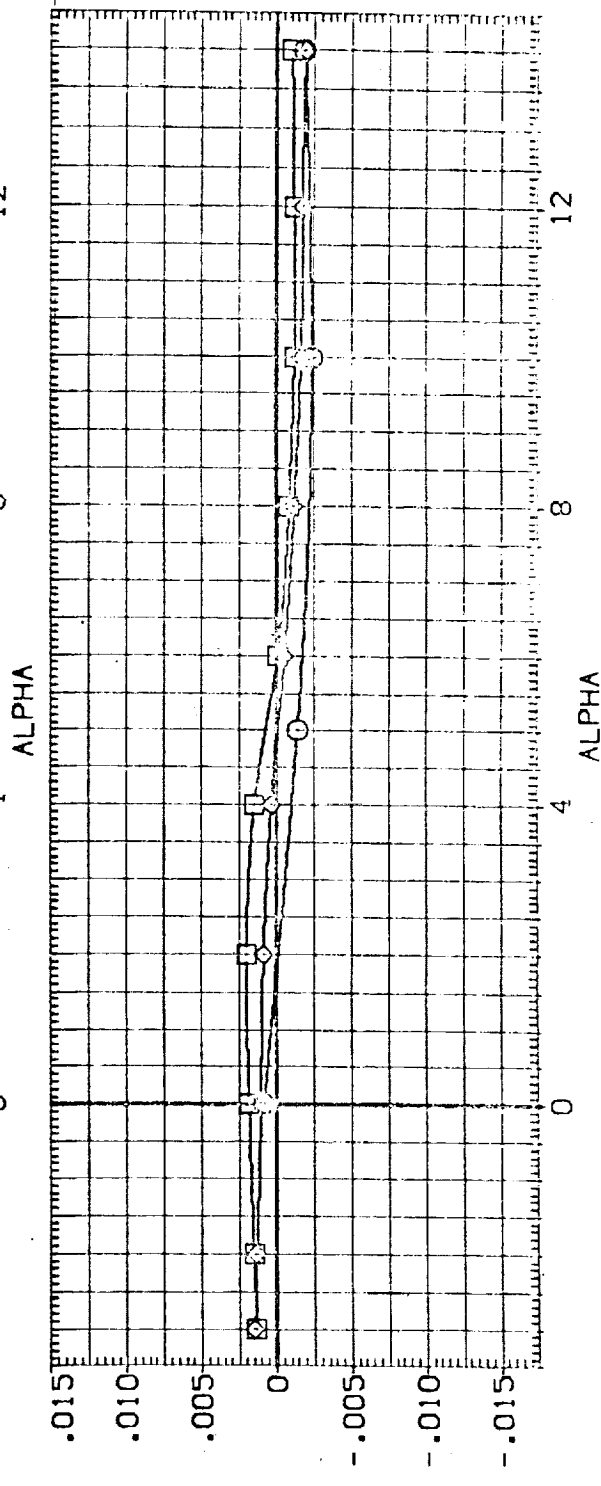
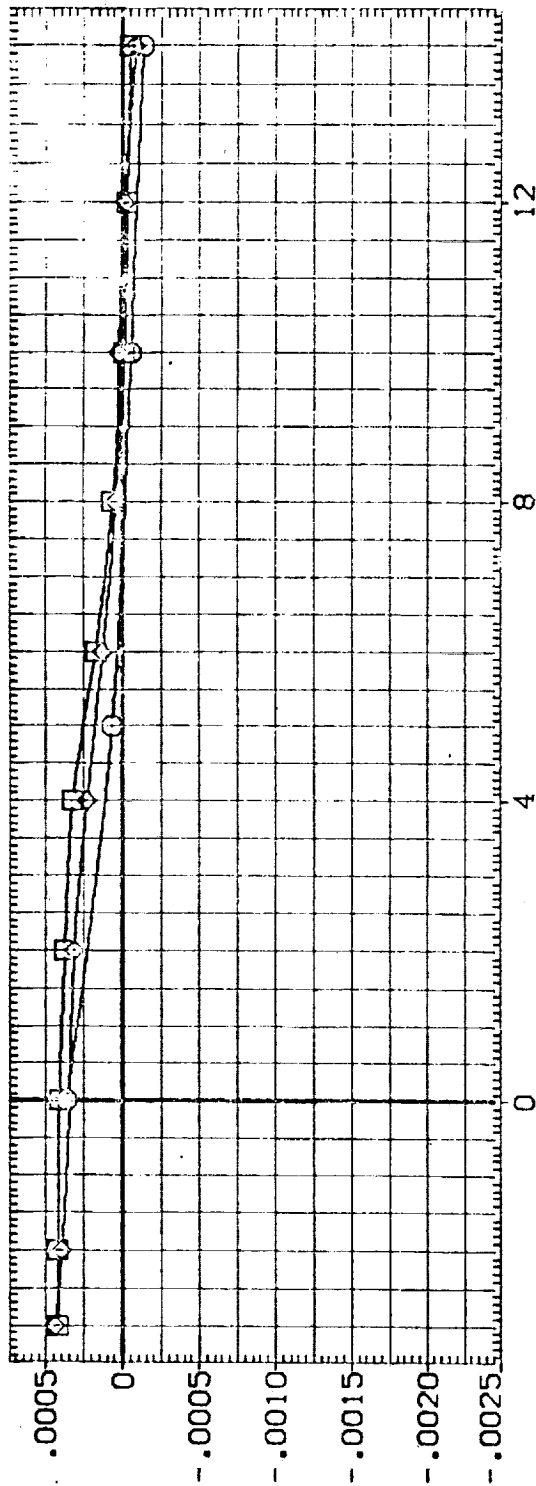


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

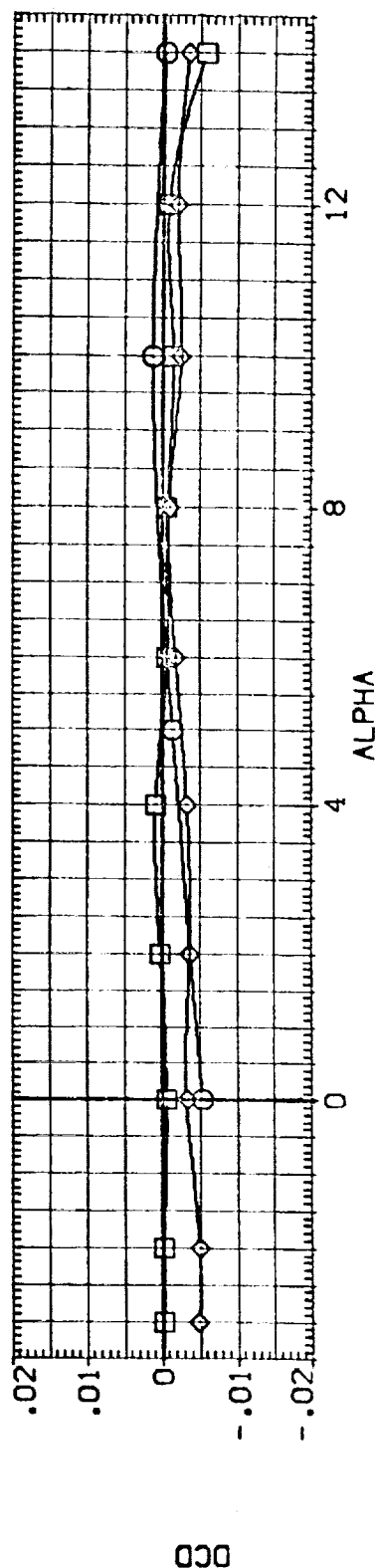
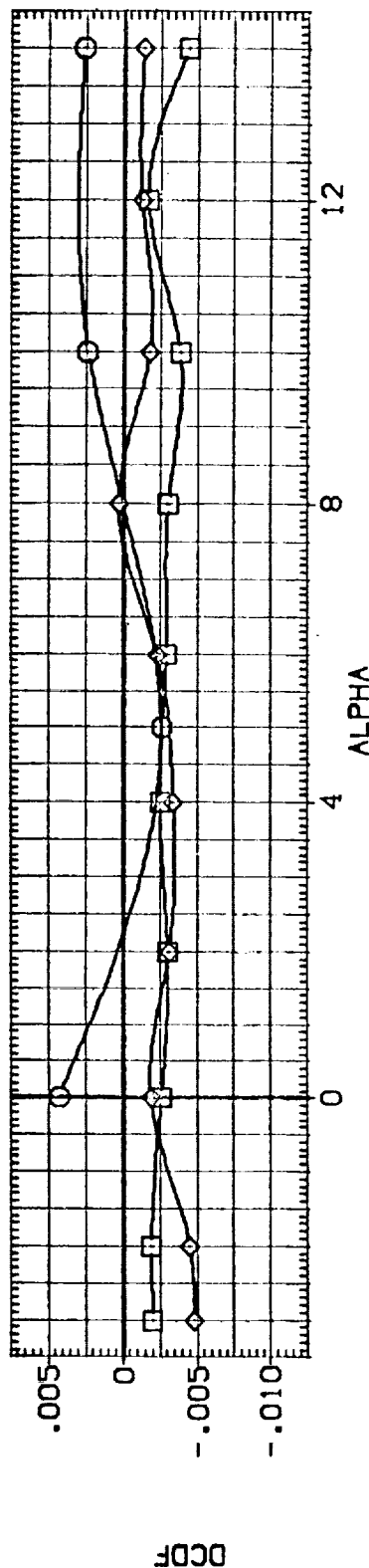
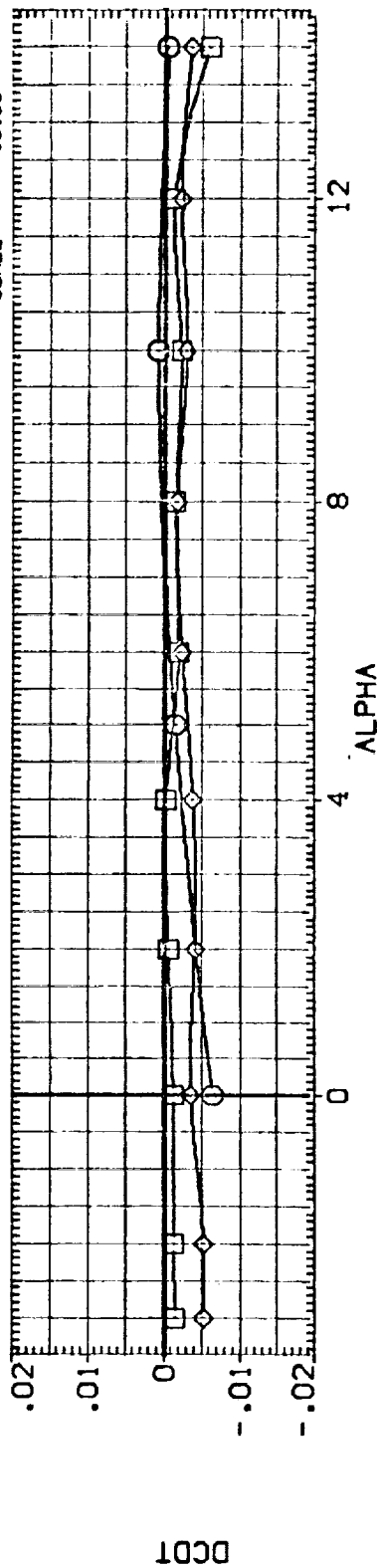


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (UER012)    ARC 66-709 D459 D411A-(R5 V8)+STRUT  
 (UER014)    ARC 66-709 D459 D411A-(R5 V8)+STRUT  
 (UER015)    DATA NOT AVAILABLE

BETA    ELEVON    BDFLAP  
 .000    .000    -11.700  
 .000    .000    16.300  
 .000    .000    .000

REFERENCE INFORMATION  
 SREF    .6053    SQ.FT.  
 LREF    .5935    FT.  
 BREF    1.1710    FT.  
 YMRP    12.6255    IN.  
 YMRP    .0000    IN.  
 ZMRP    -.3750    IN.  
 SCALE    .0150

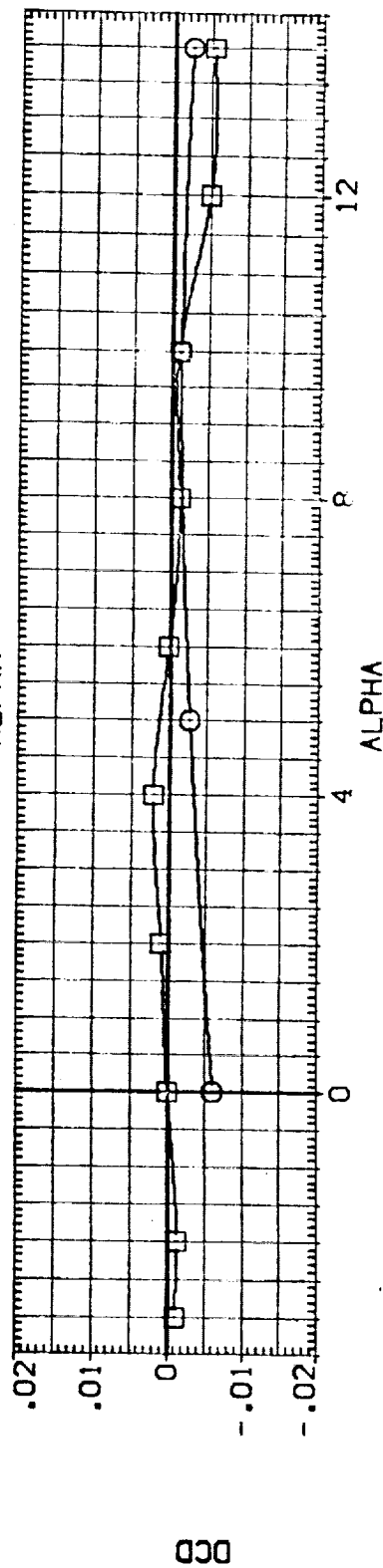
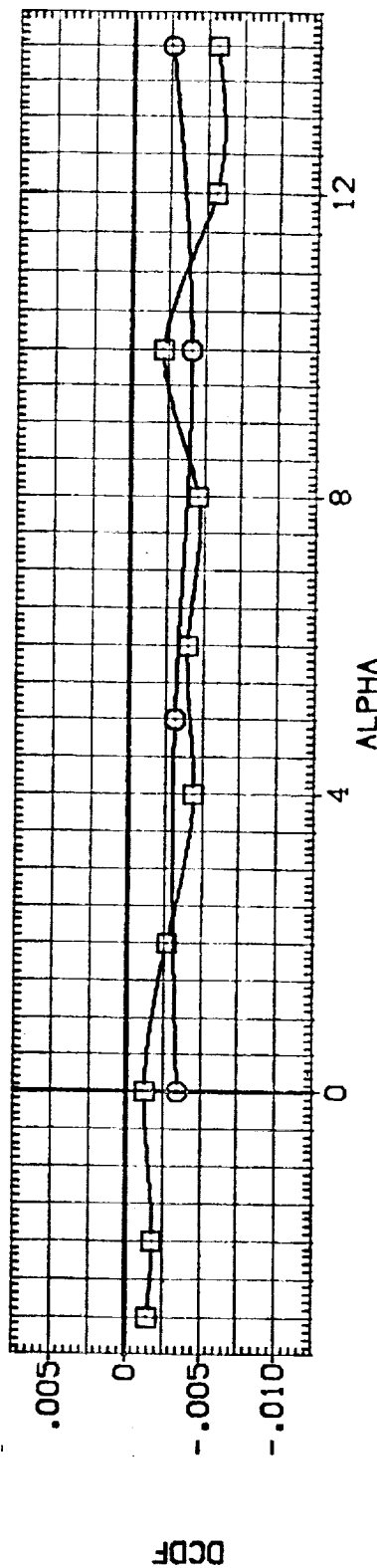
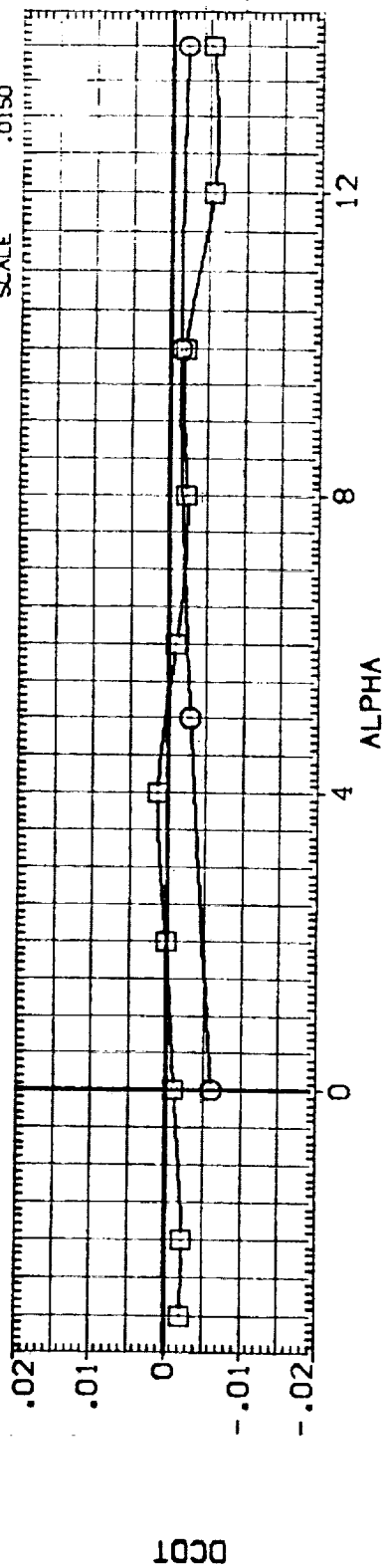
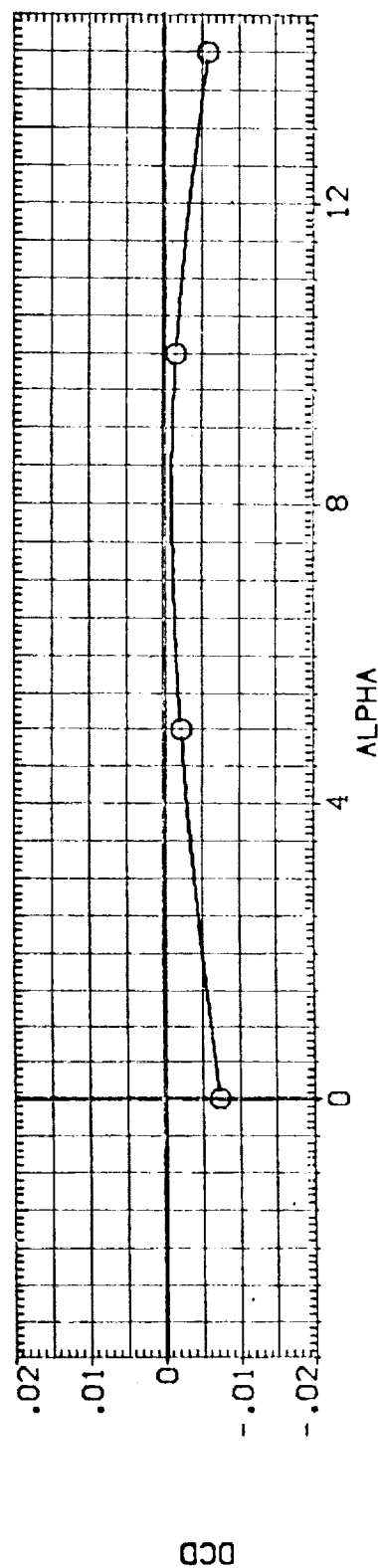


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

REFERENCE INFORMATION	
SREF	-6053 SO.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150



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**CONFIGURATION DESCRIPTION**

BETA	ELEVEN	80FLAP
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

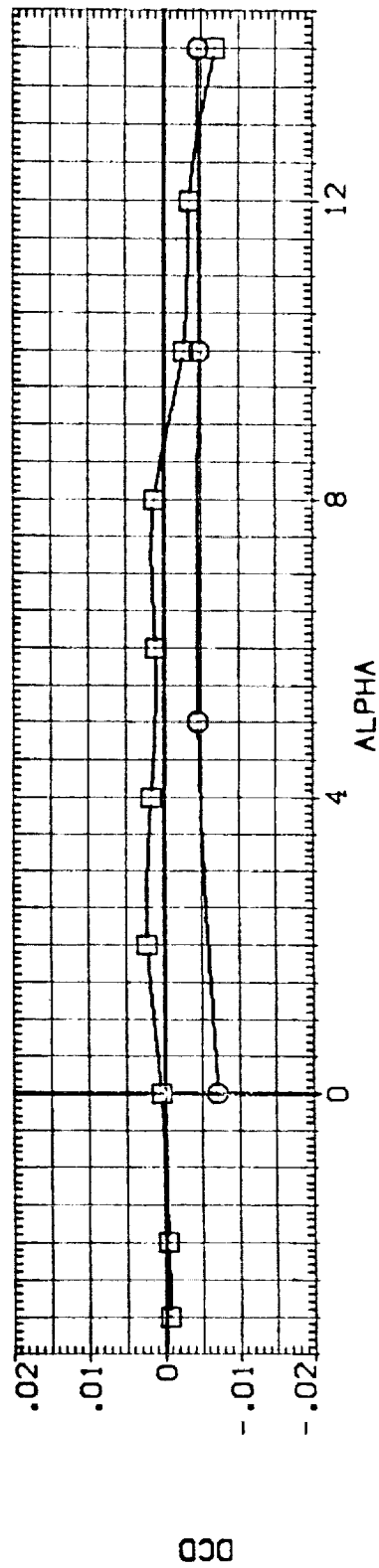
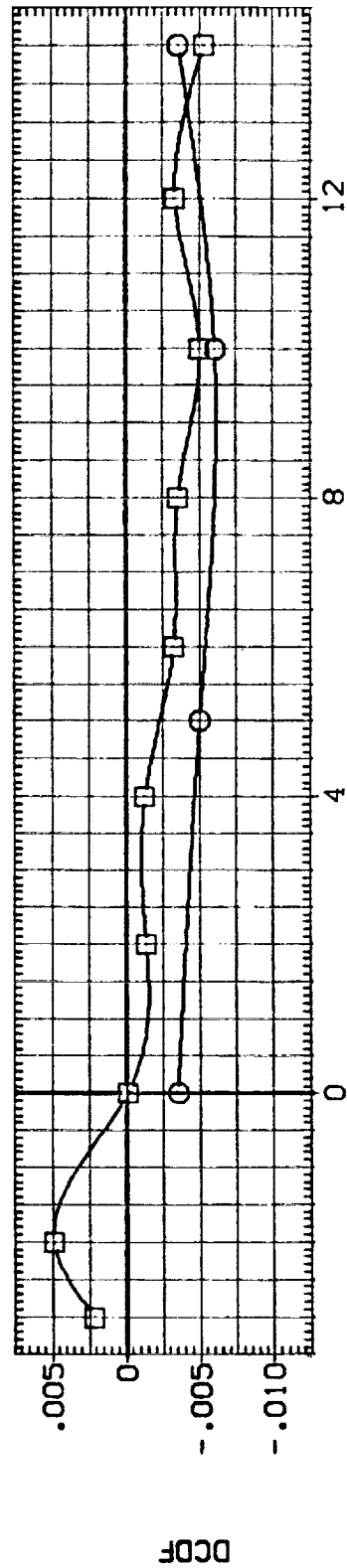
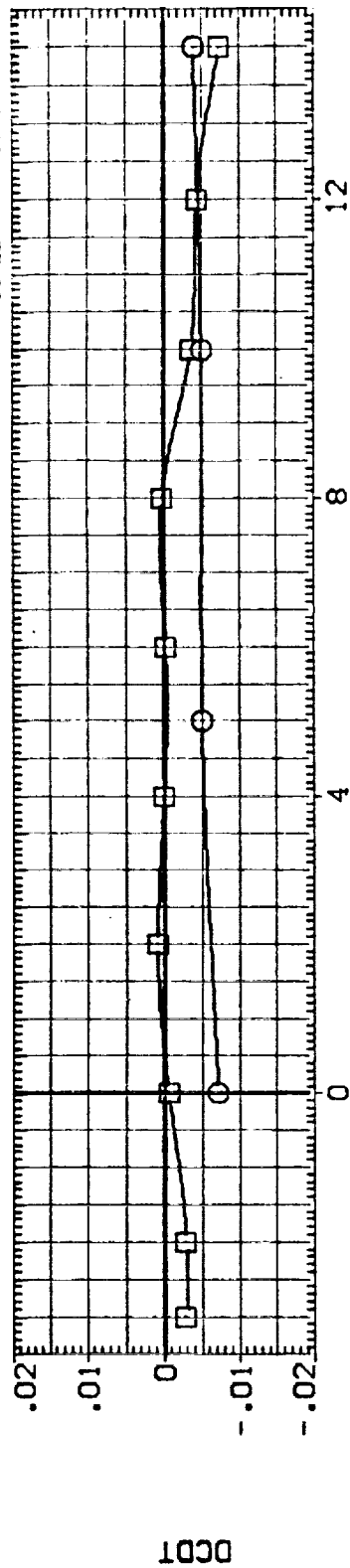


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

$$(\text{COMACH}) = .80$$



DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (UERO12)    ARC 66-709 0A11A-(R5 V8)+STRUT  
 (UERO14)    DATA NOT AVAILABLE  
 (UERO15)    DATA NOT AVAILABLE

BETA    ELEVON    BOFLAP  
 .000    .000    -11.700  
 .000    .000    16.300  
 .000    .000    .000

REFERENCE INFORMATION  
 SREF    .6053    50.FT.  
 LREF    .5935    FT.  
 BREF    1.1710    FT.  
 XMRP    12.6255    IN.  
 YMRP    .0000    IN.  
 ZMRP    -.3750    IN.  
 SCALE    .0150

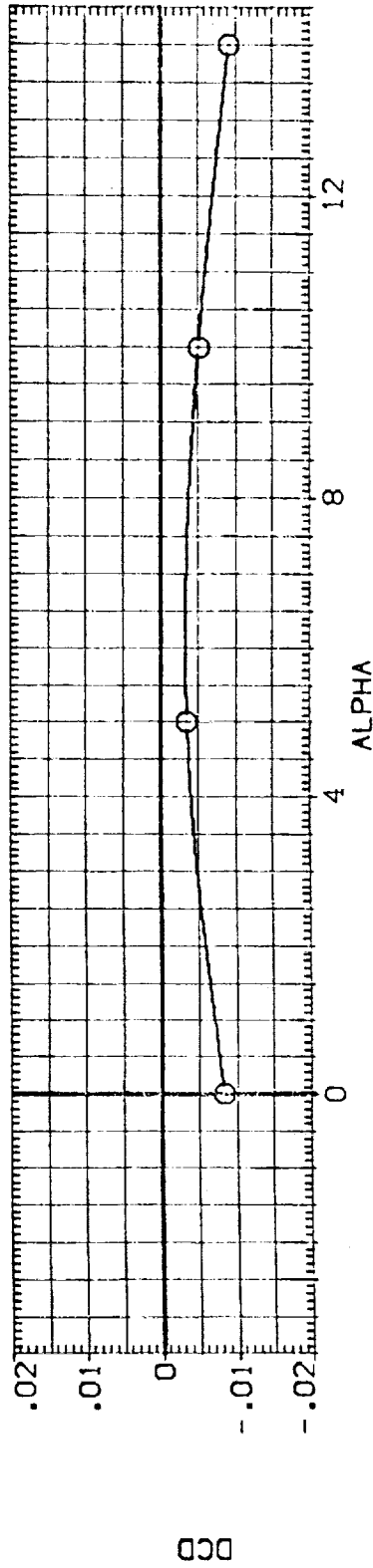
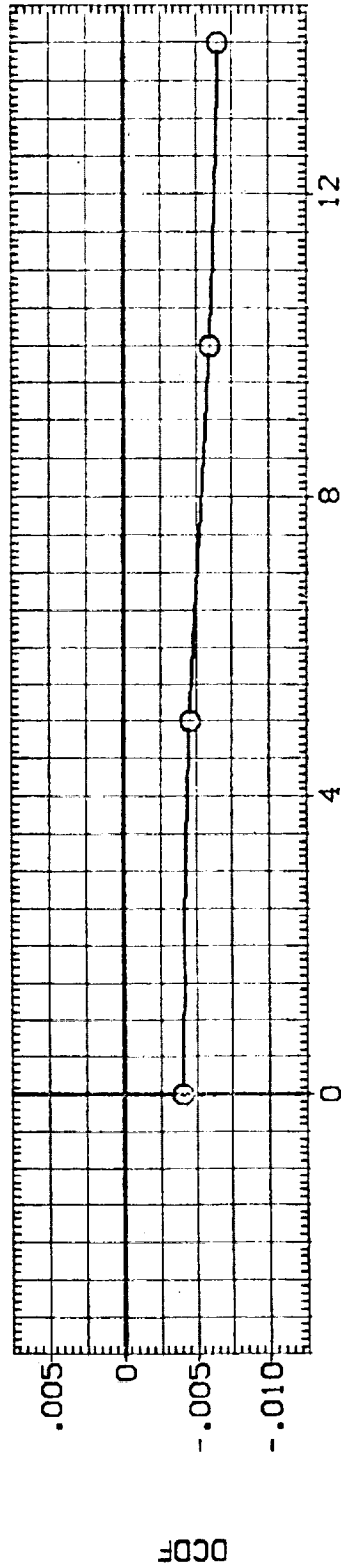
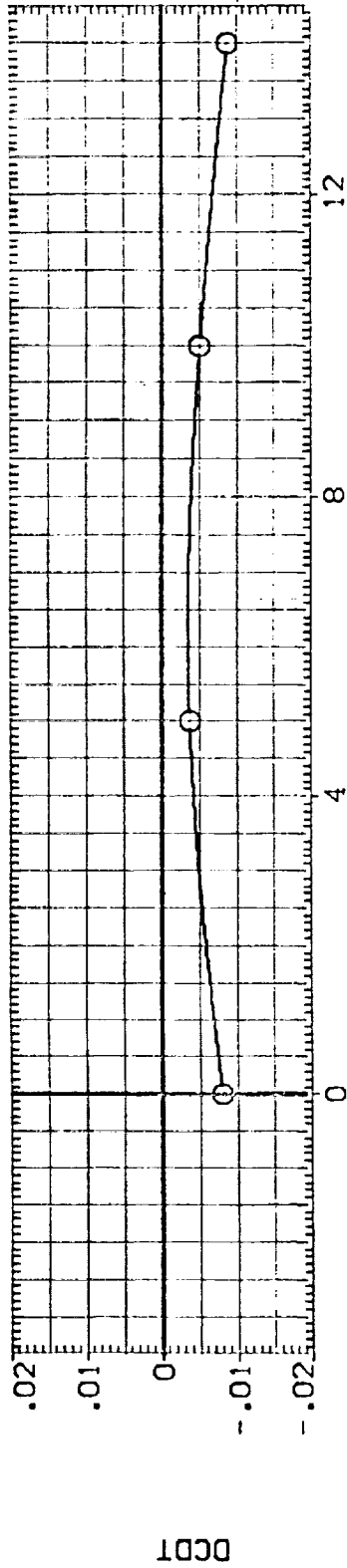


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .85



DATA SET SYMBOL: {UERO12}  
 {UERO14}  
 {UERO15}

CONFIGURATION DESCRIPTION:  
 ARC 66-709 OASG DATA-(RS V8)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700  
 .000  
 .000  
 .000

REFERENCE INFORMATION:  
 SREF: .6053 SQ.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

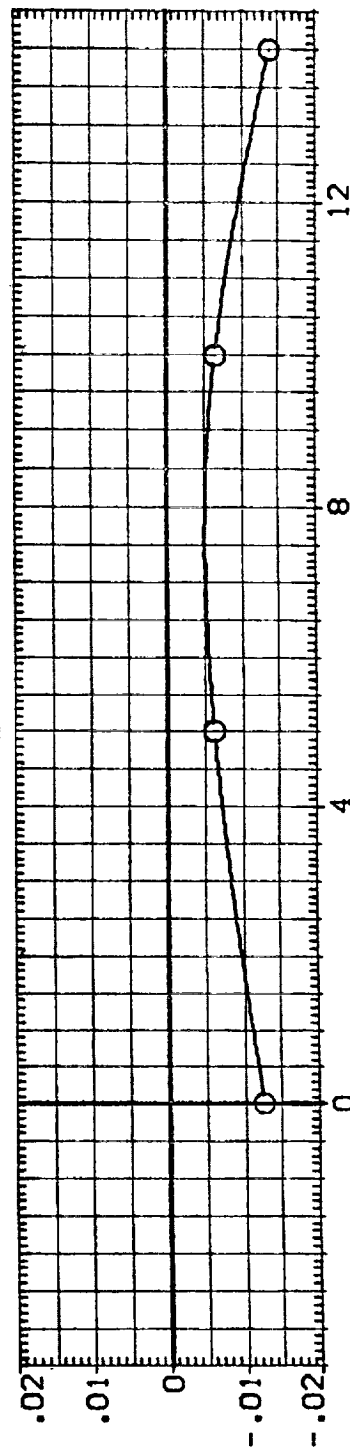
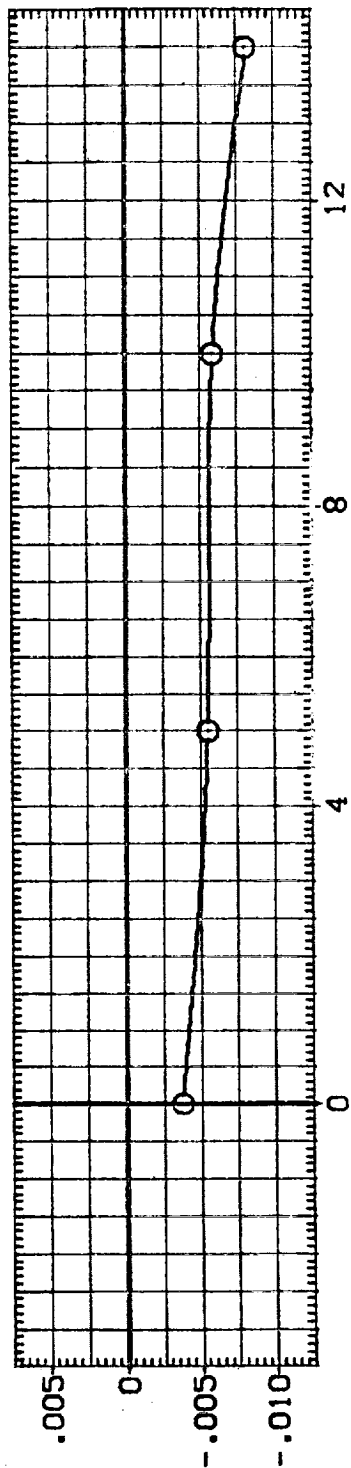
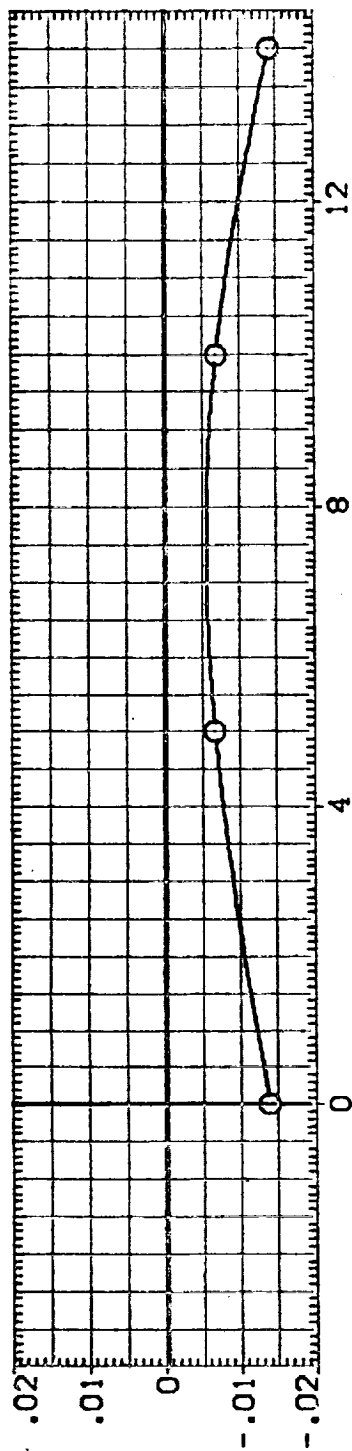


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{UER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{UER014}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	LREF .5933 FT.
{UER015}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

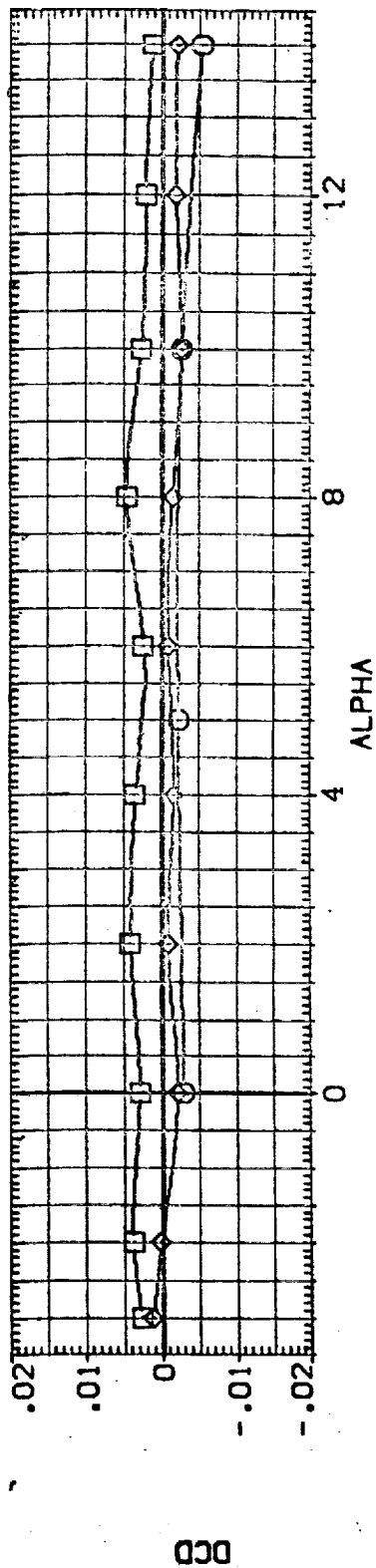
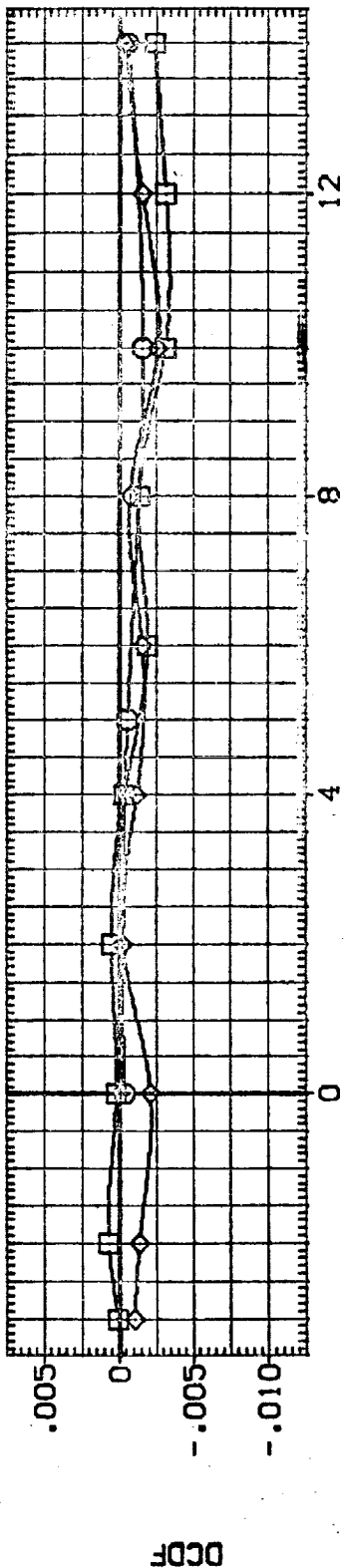
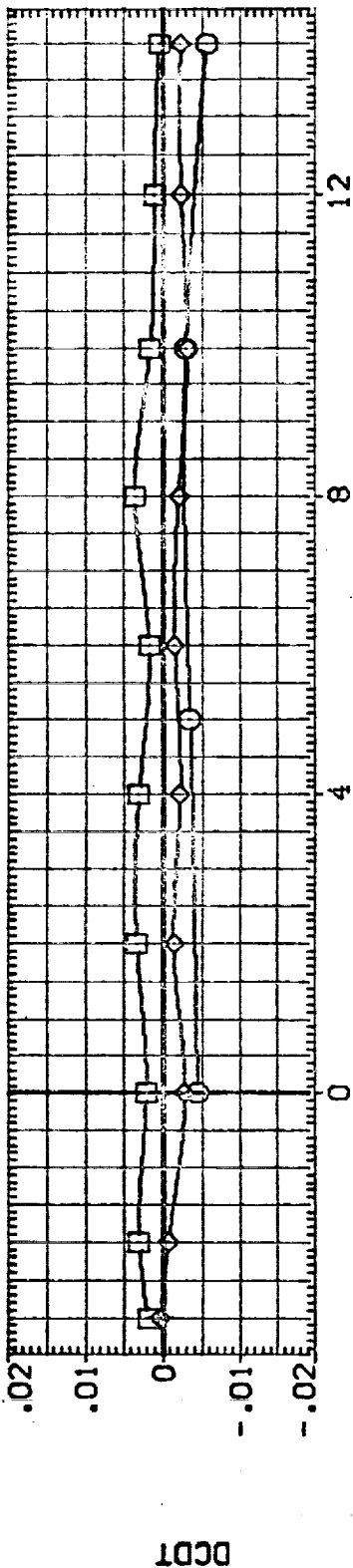


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(HJ)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(UER012) ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT

(UER014) ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT

(UER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

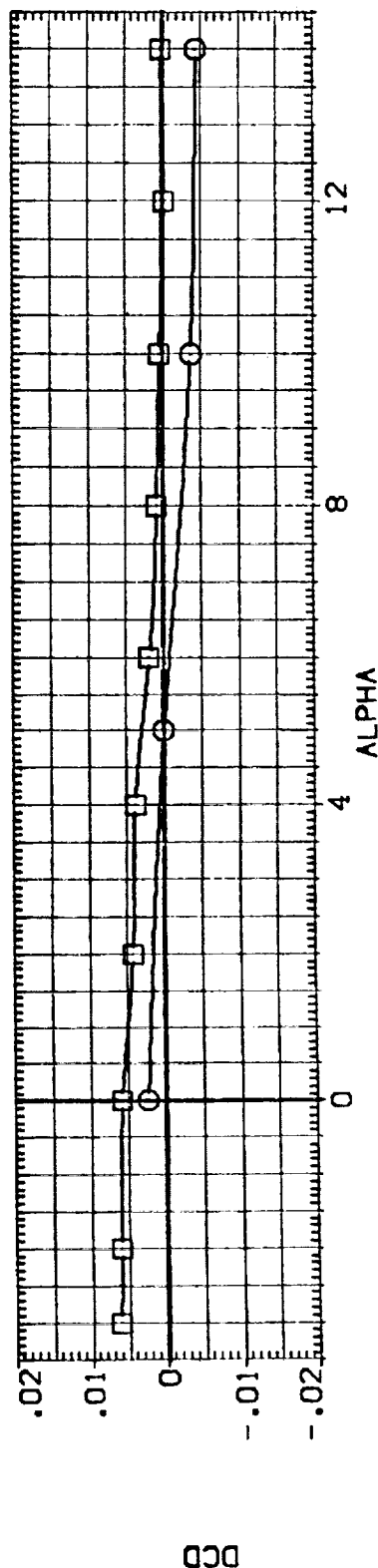
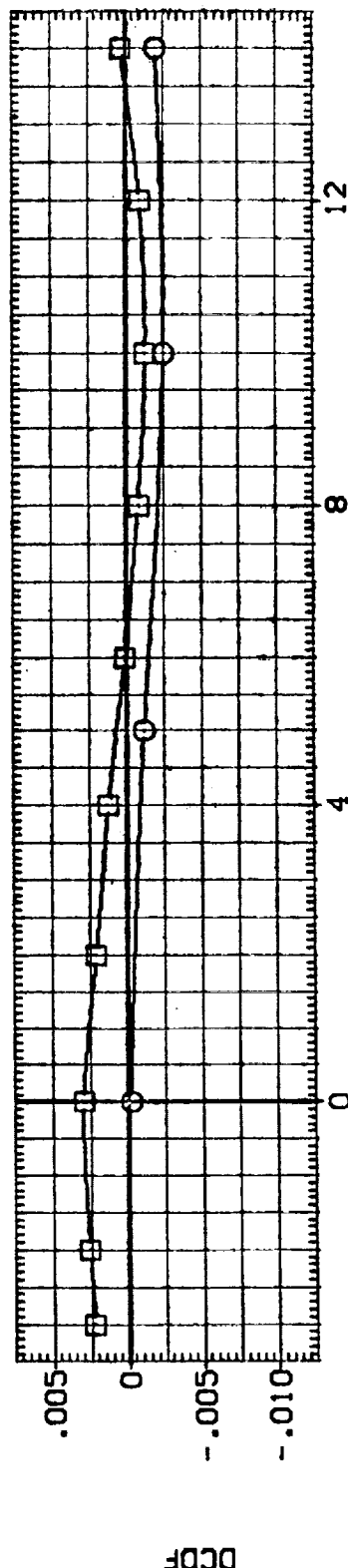
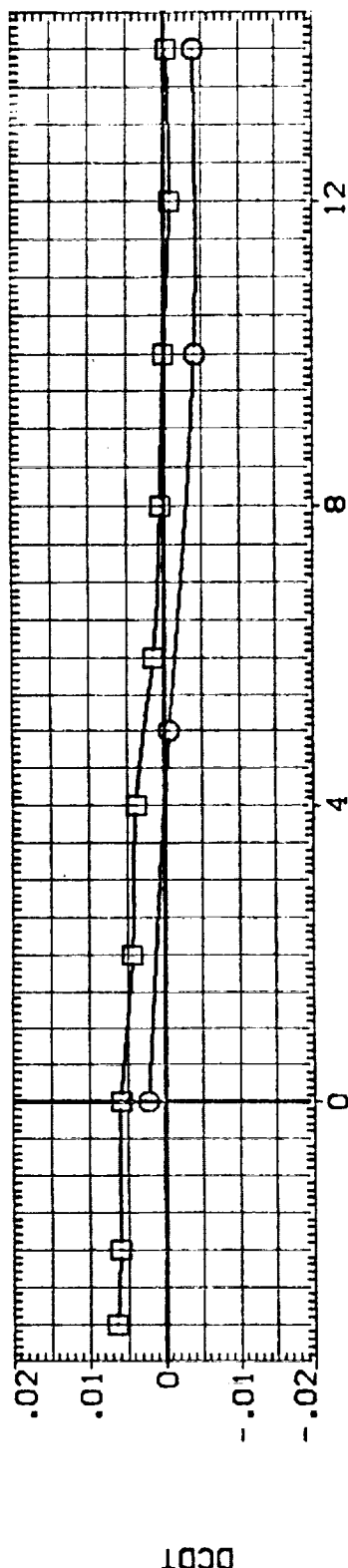


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(UERO12) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

(UERO14) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

(UERO15) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .5053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

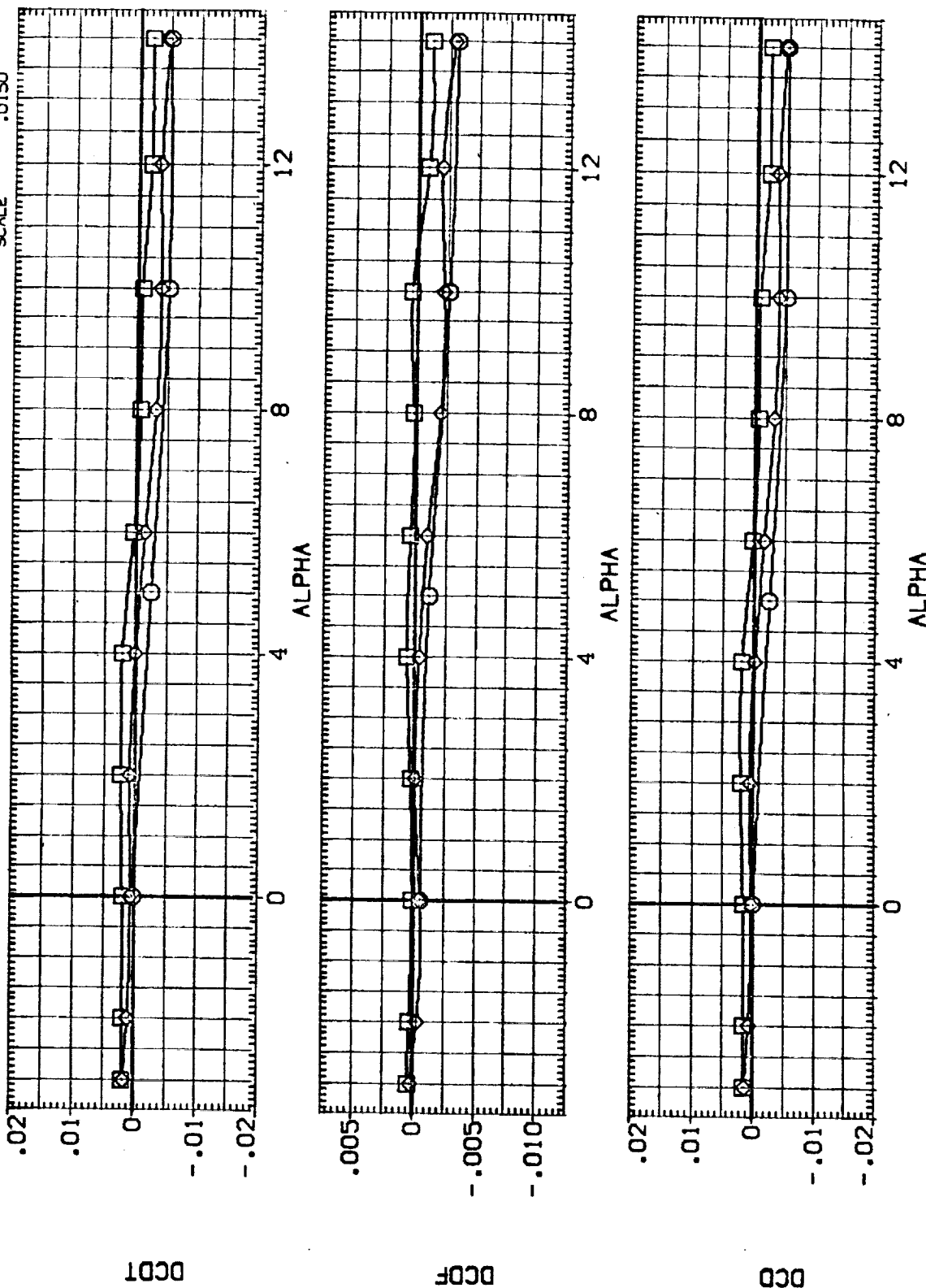


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

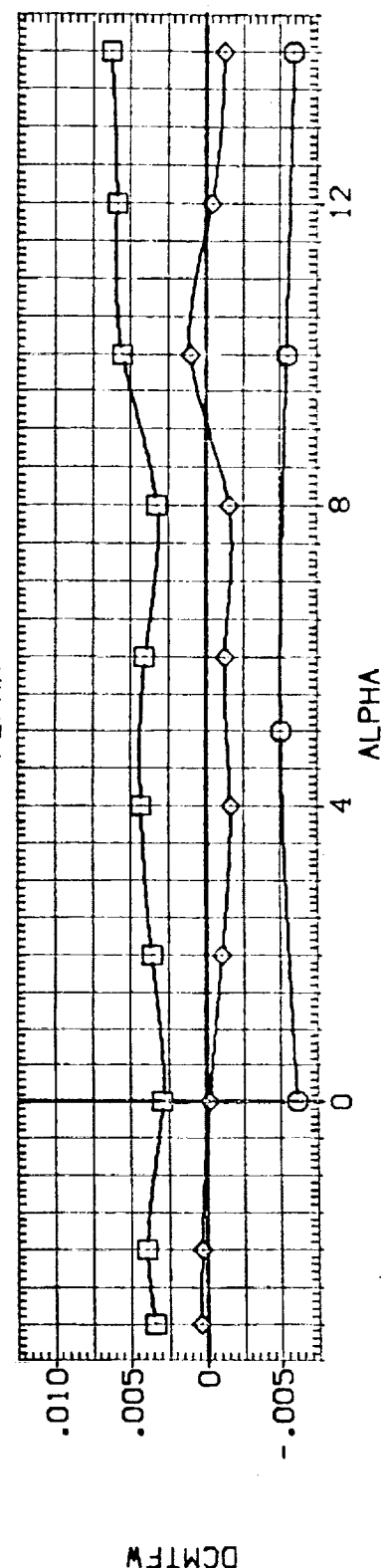
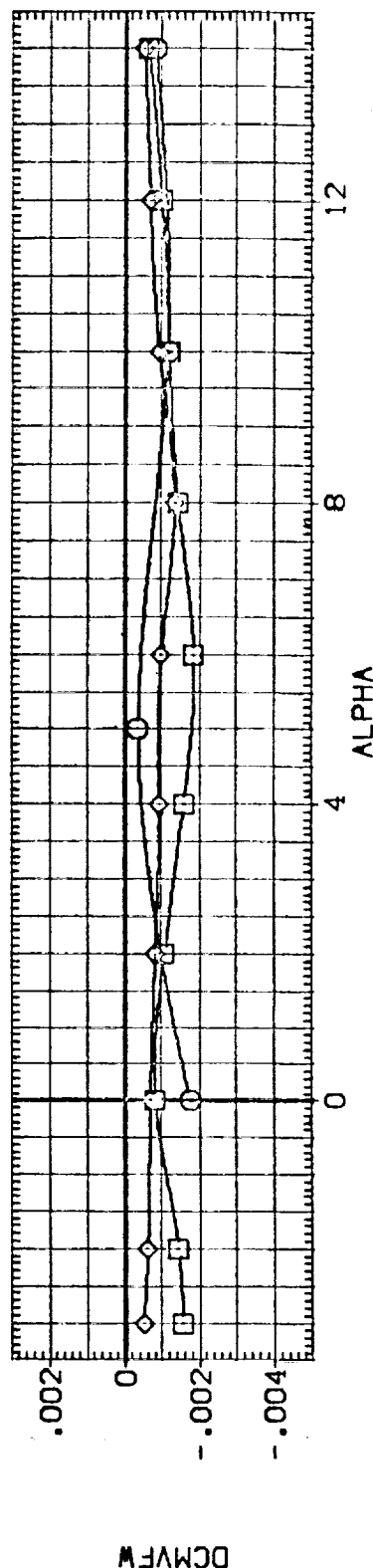
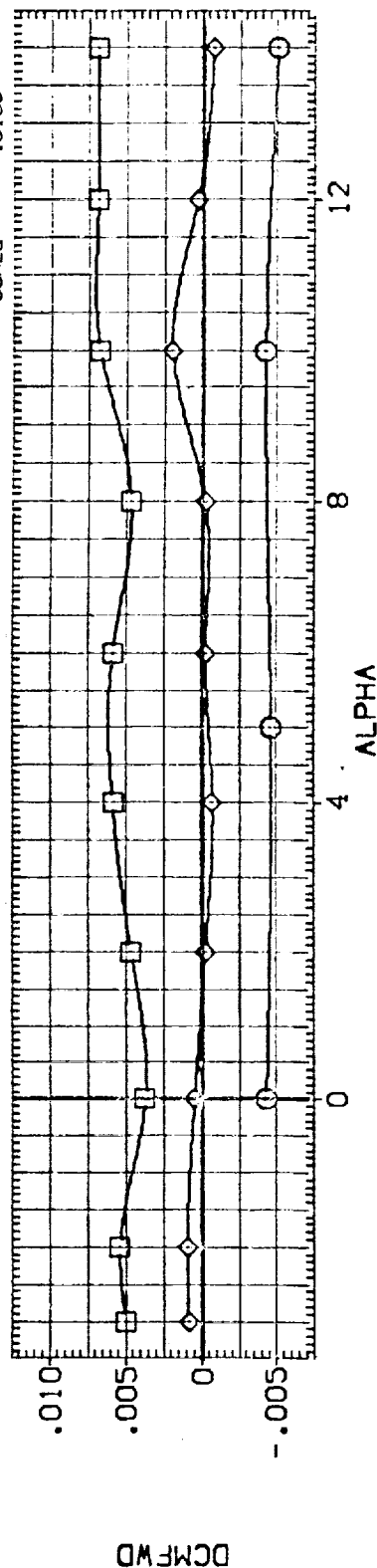


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 (VER014) ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

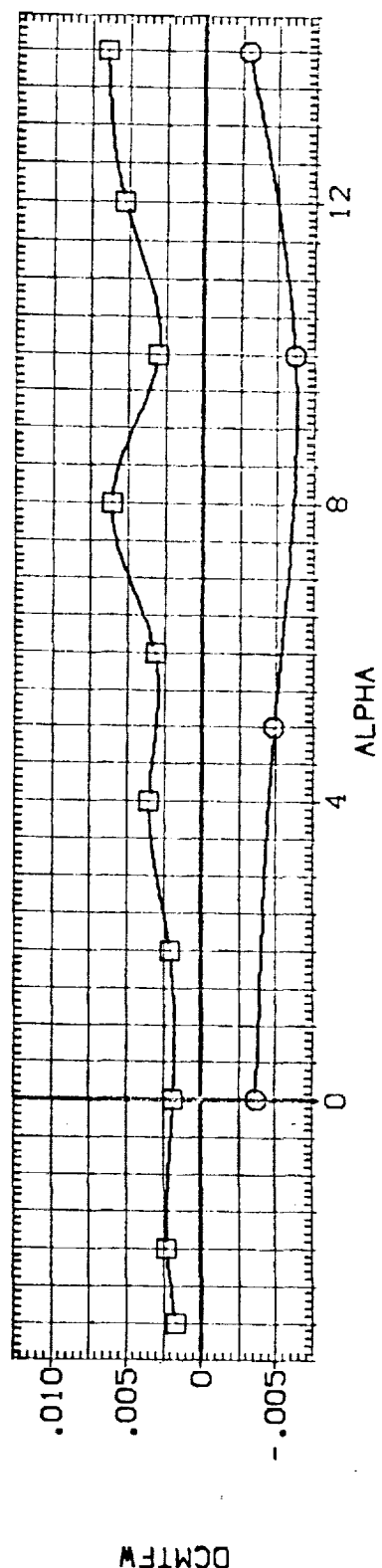
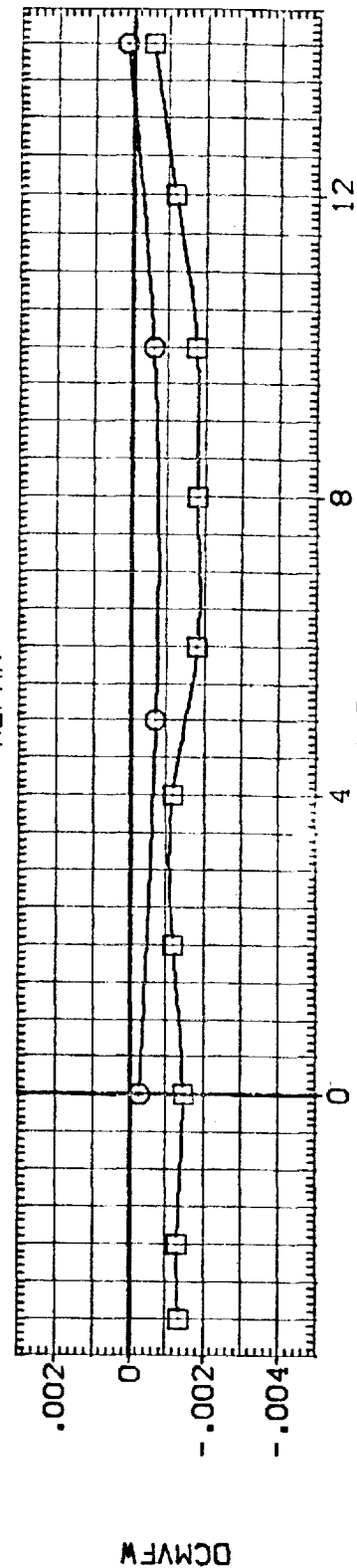
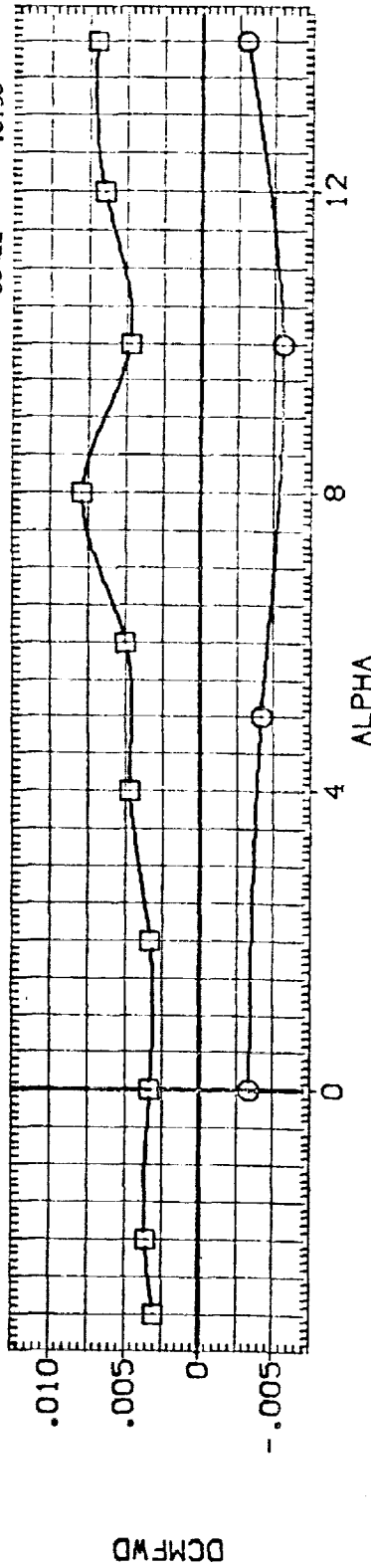


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(8)MACH = .70



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 CLASS 0A11A--(RS VB1)STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

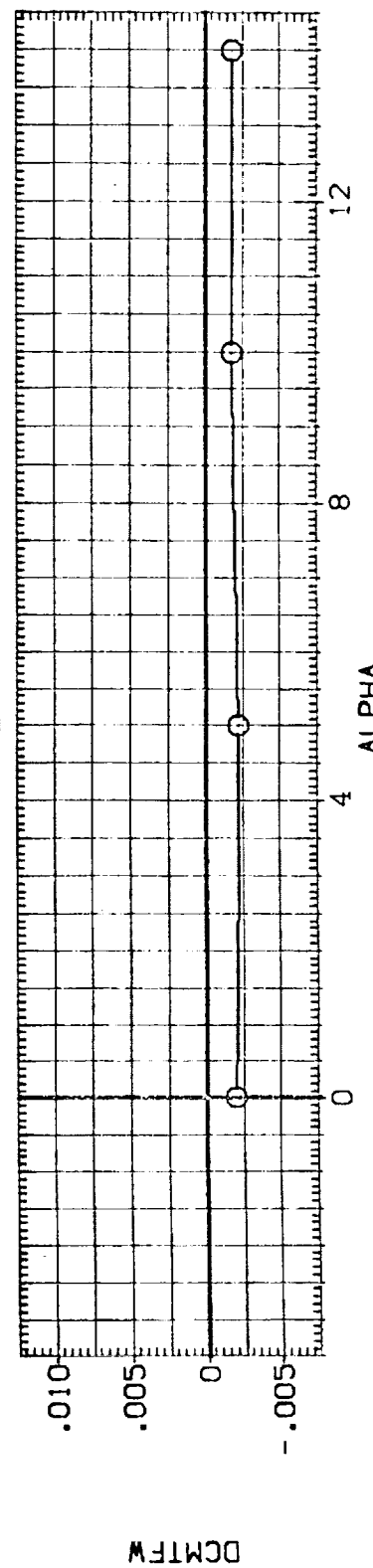
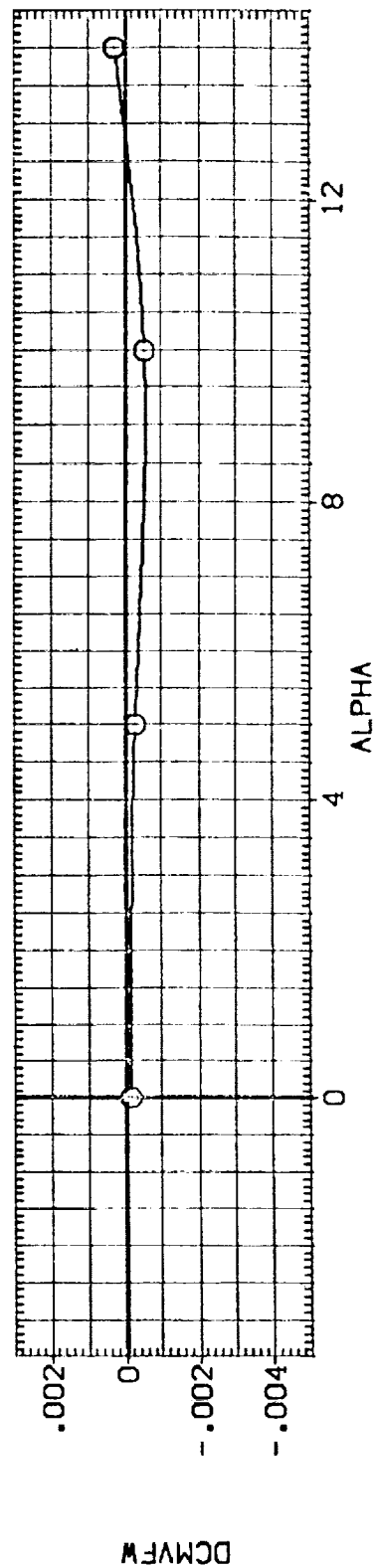
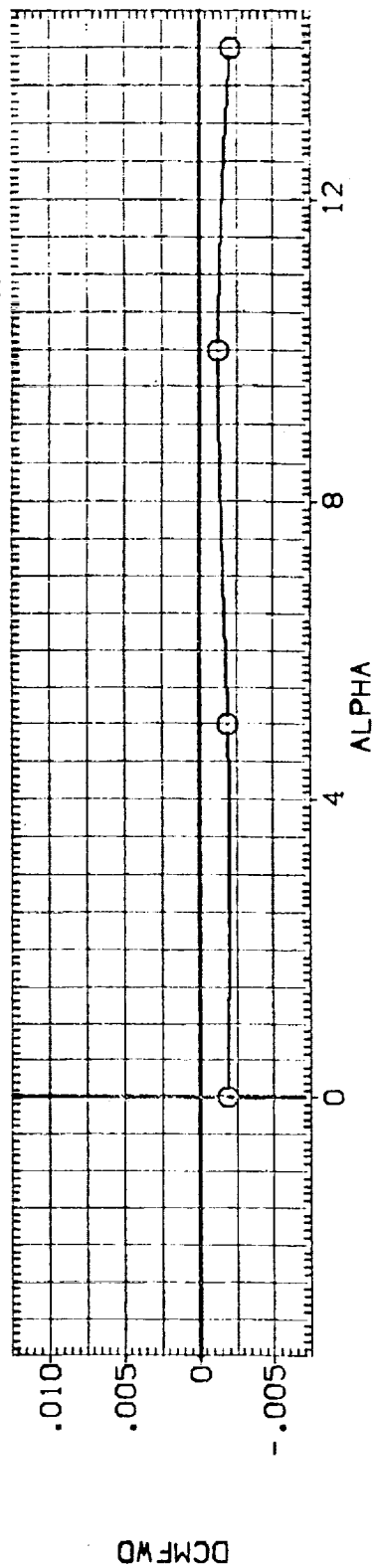


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 65-709 0A59 0A11A-(RS V8)+STRUT  
 (VER014) ARC 65-709 0A59 0A11A-(RS V8)+STRUT  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5035 FT.  
 QREF 1.1710 FT.  
 XMOY 12.6255 IN.  
 YMOY .0000 IN.  
 ZMOY -.3750 IN.  
 SCALE .0150

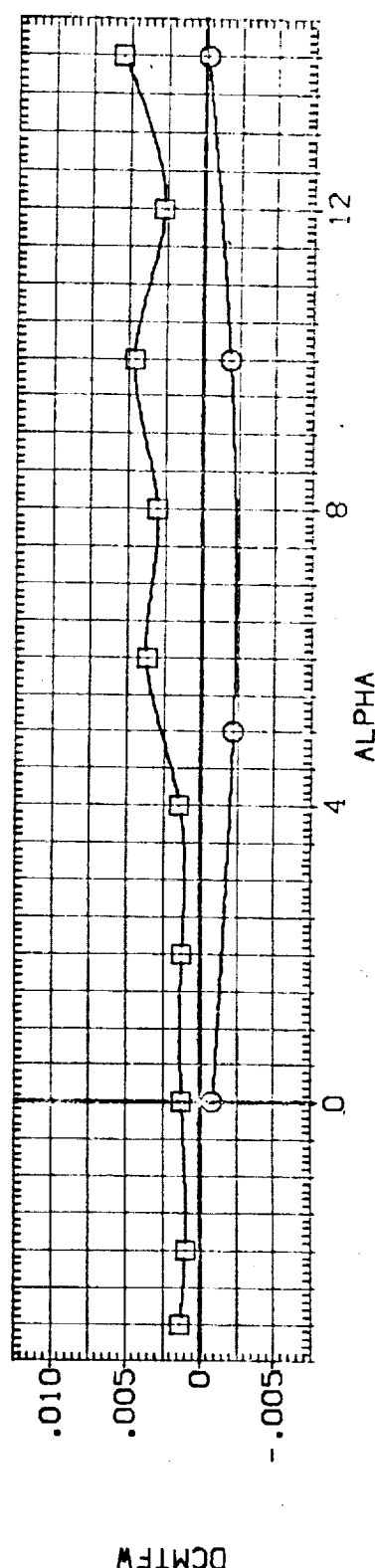
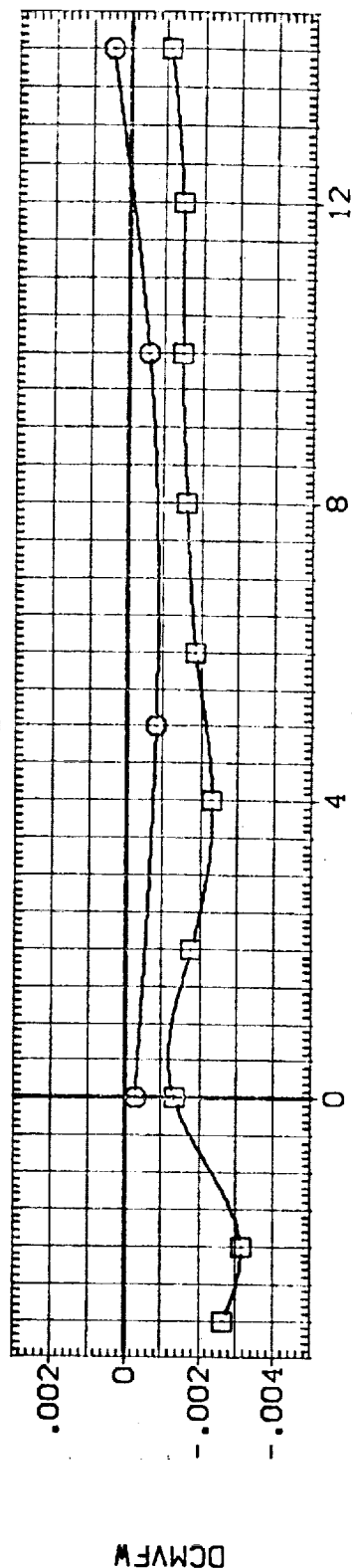
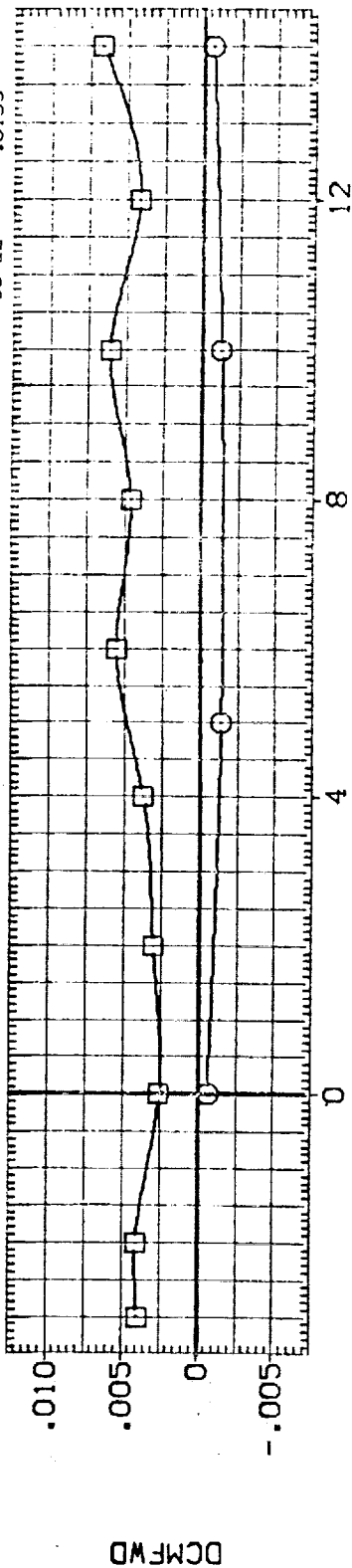


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL: (VER012) (VER014) (VER015)

CONFIGURATION DESCRIPTION: ARC 66-709 OA11A-(RS V8)+STRUT  
DATA NOT AVAILABLE  
DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 16.300 .000

REFERENCE INFORMATION:

	6053	50.FT.
SREF	.6053	50.FT.
LREF	.5533	FT.
BREF	1.110	FT.
XMRP	12.6235	IN.
YMRP	.0000	IN.
ZMRP	-3.750	IN.
SCALE	.0150	

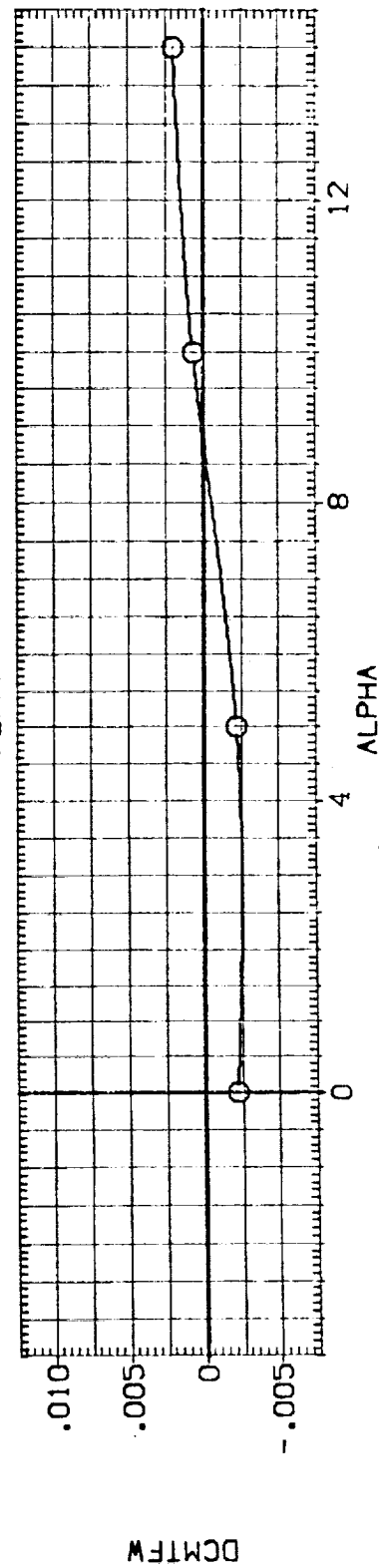
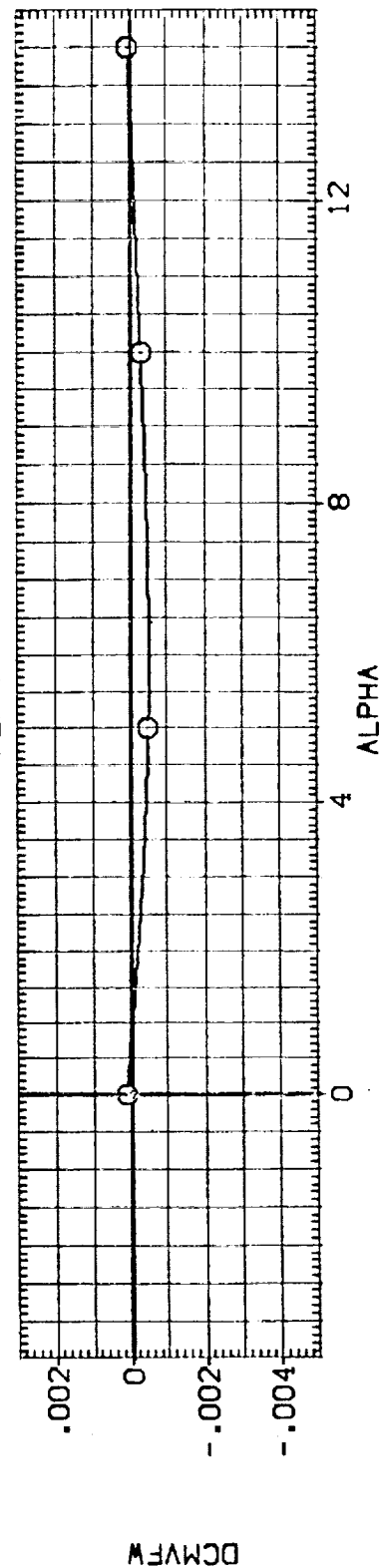
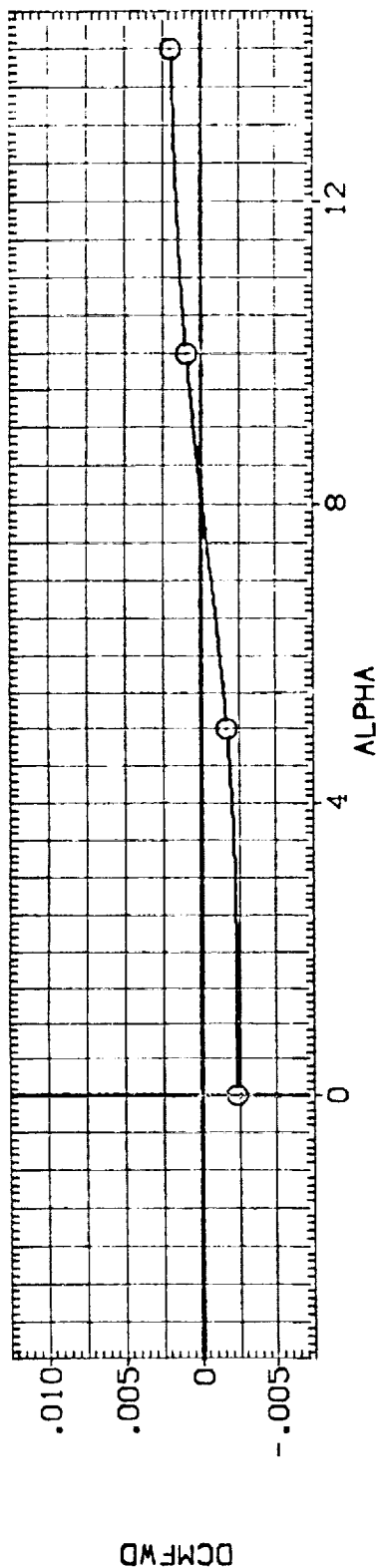


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XREF 12.6255 IN.
					YREF .0000 IN.
					ZREF -.3750 IN.
					SCALE .0150

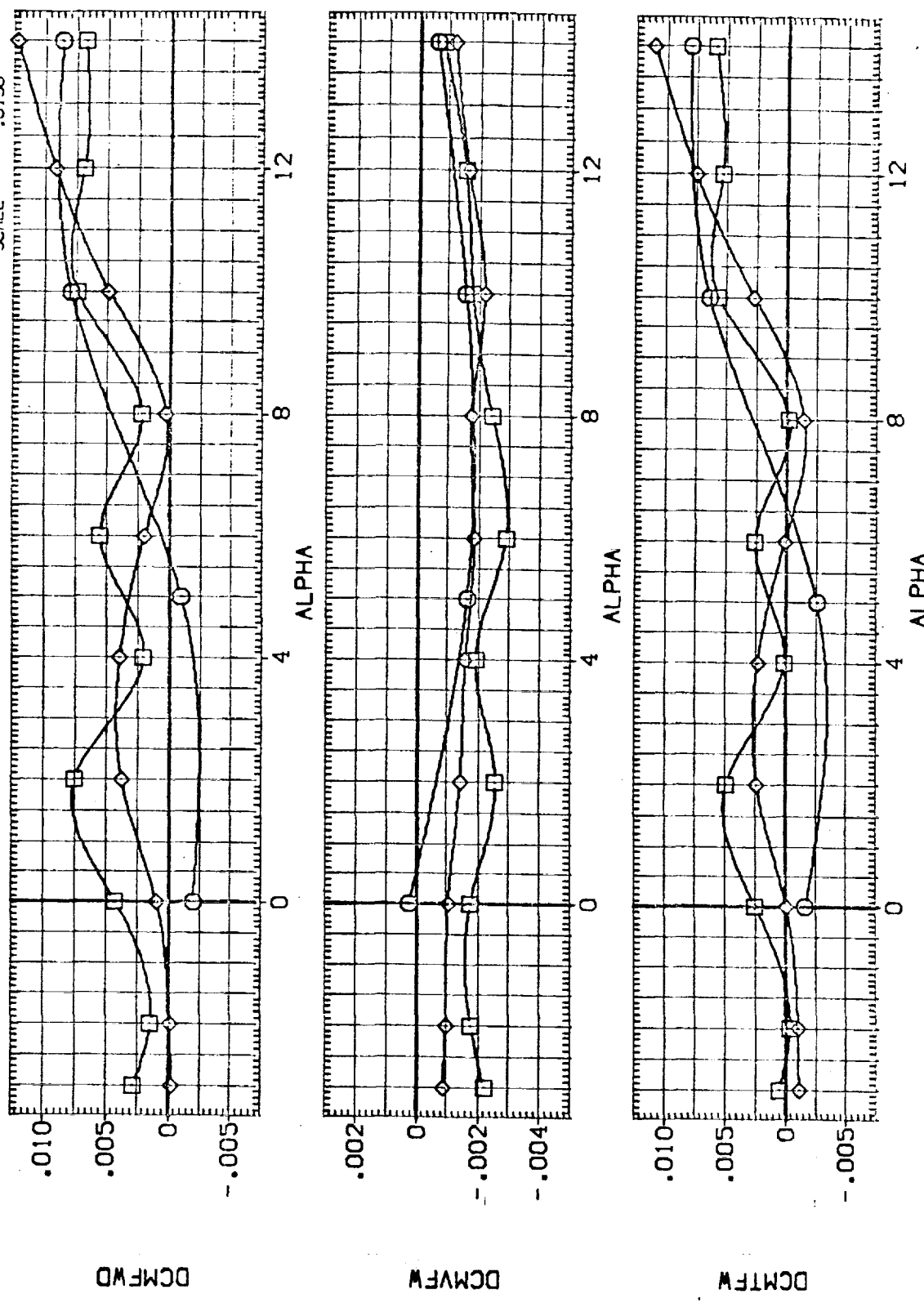


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL (VER012)  
 (VER014)  
 (VER015)

CONFIGURATION DESCRIPTION

ARC 66-709 OAS9 0A11A-(RS V81)+STRUT  
 DATA NOT AVAILABLE  
 DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

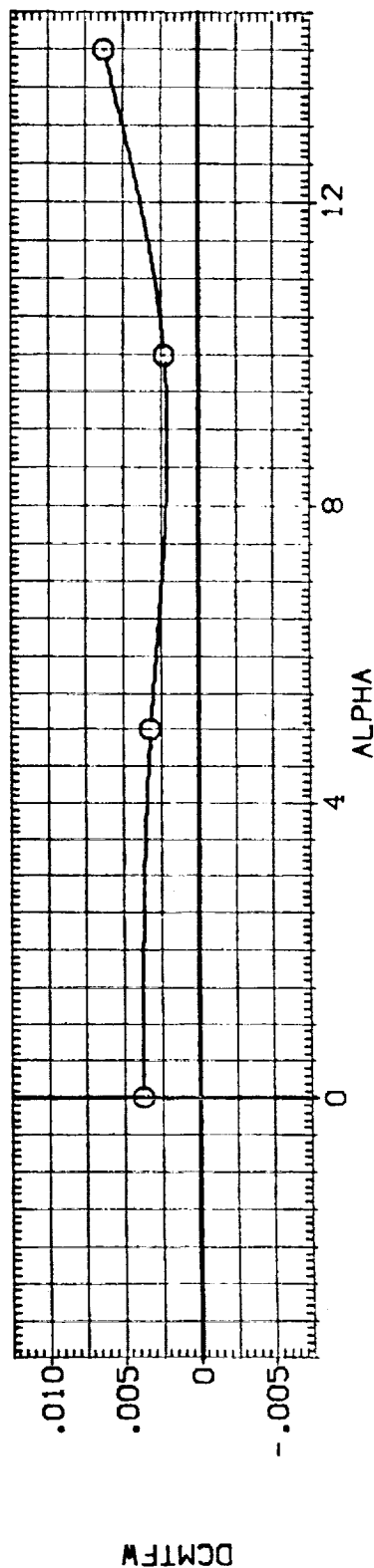
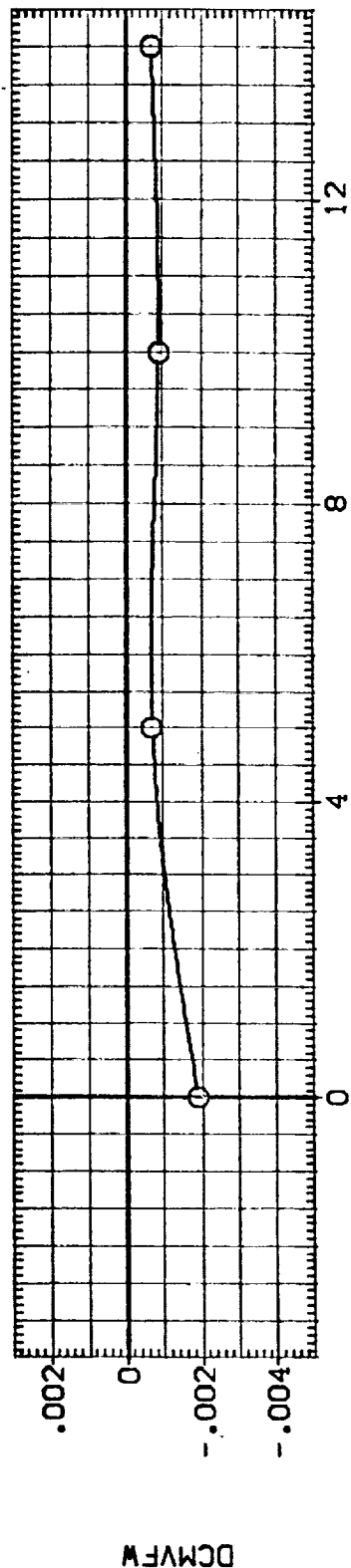
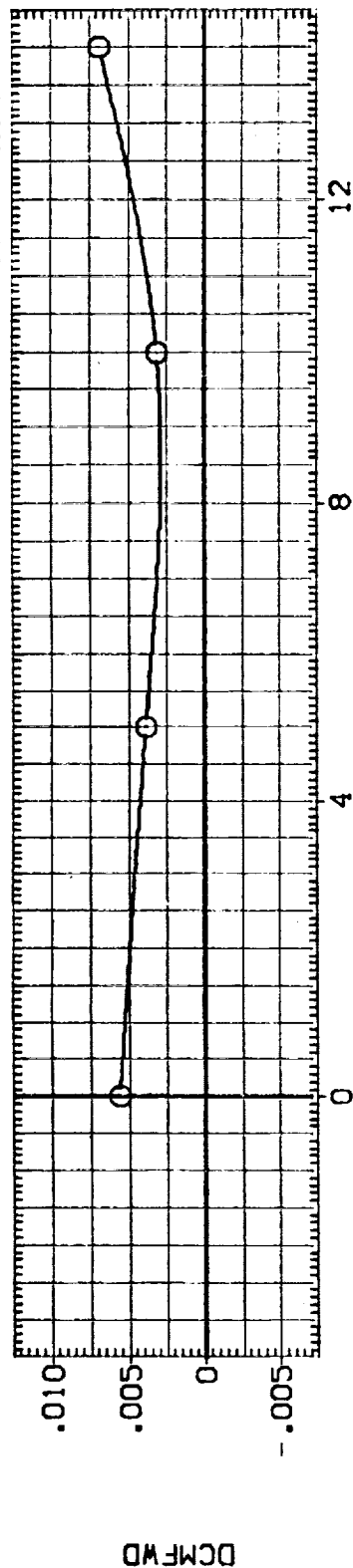


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMPP 12.6255 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

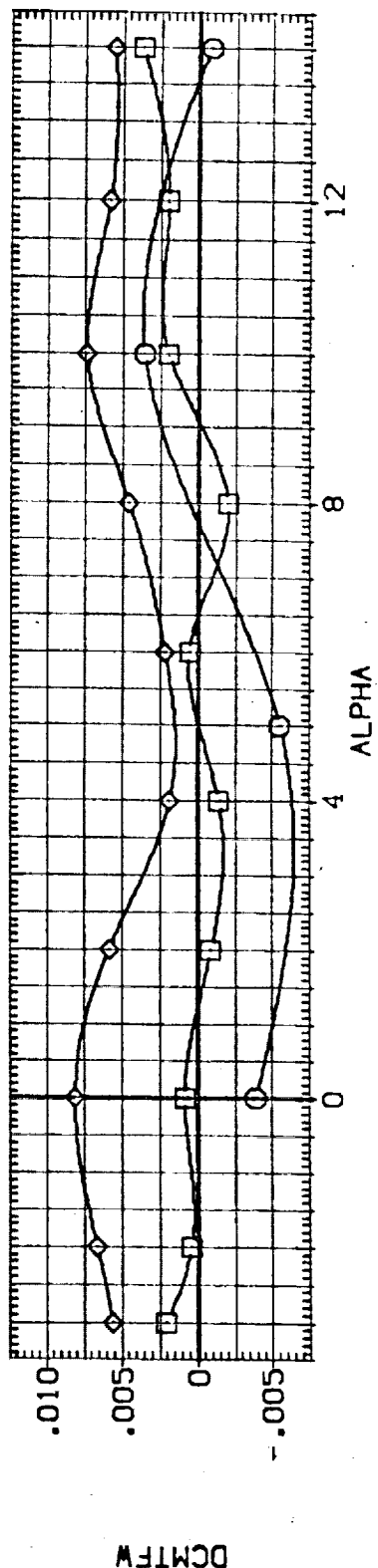
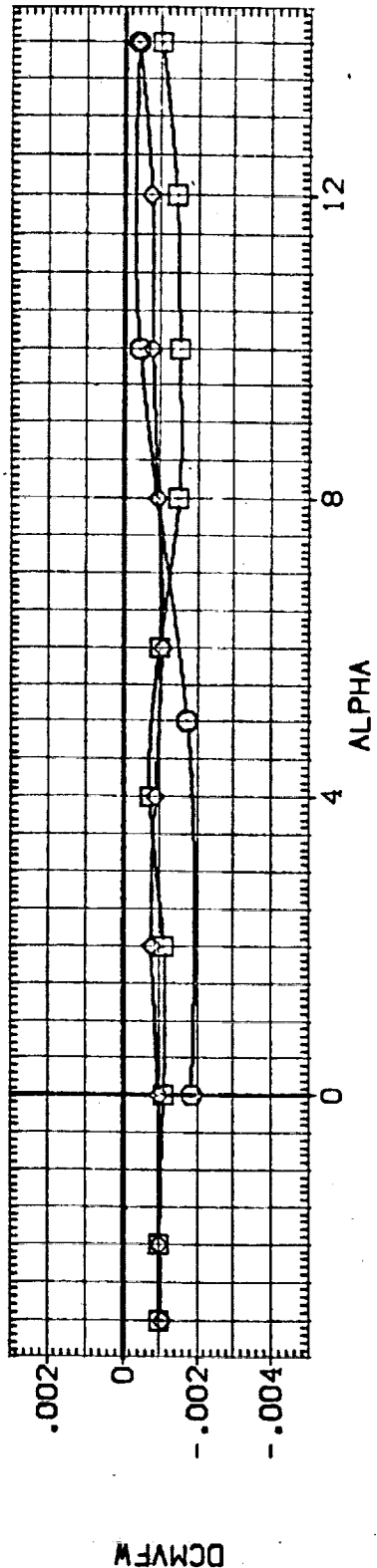
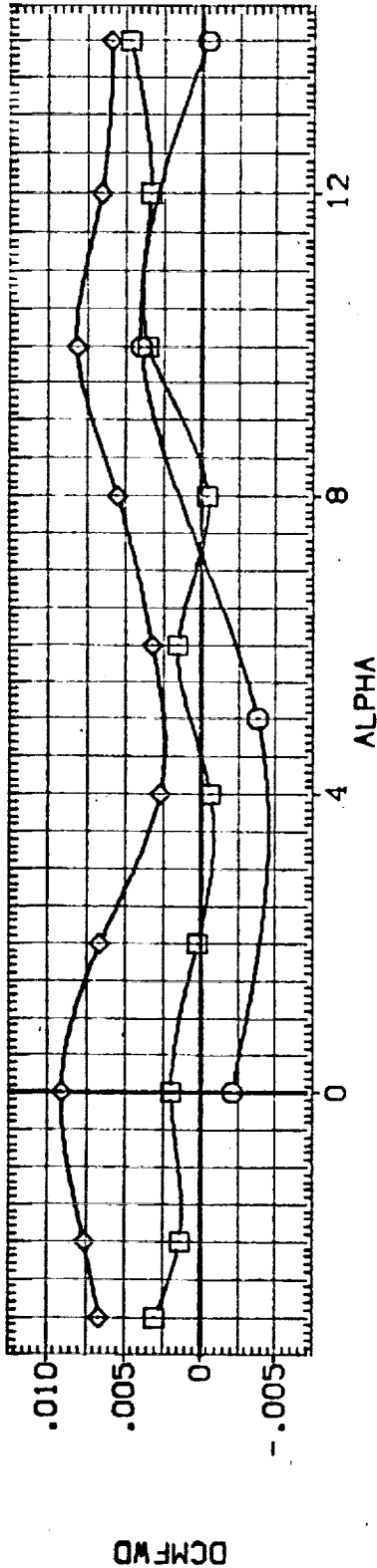


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 65-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 65-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

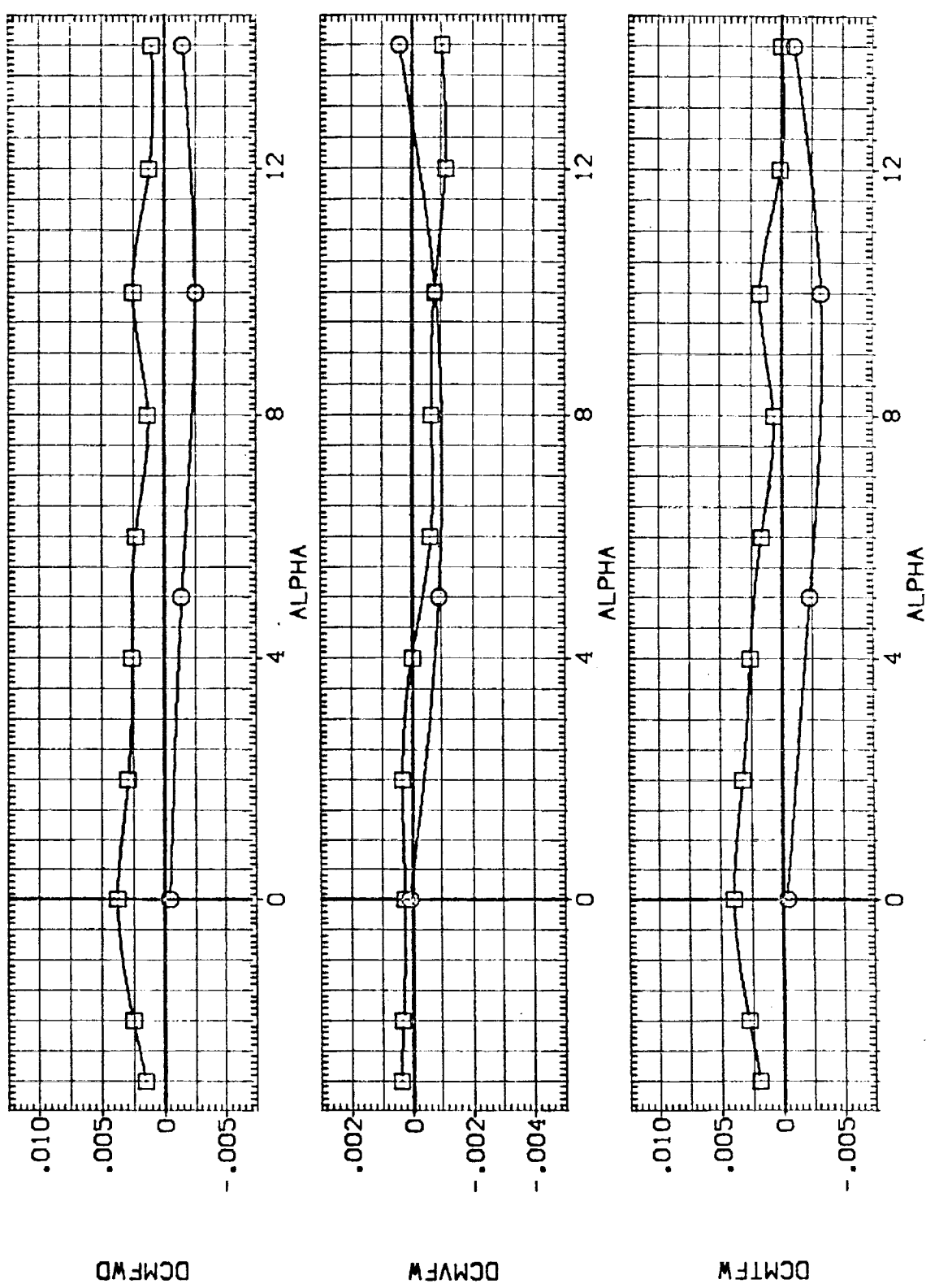


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	LREF .5935 FT.
(VER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

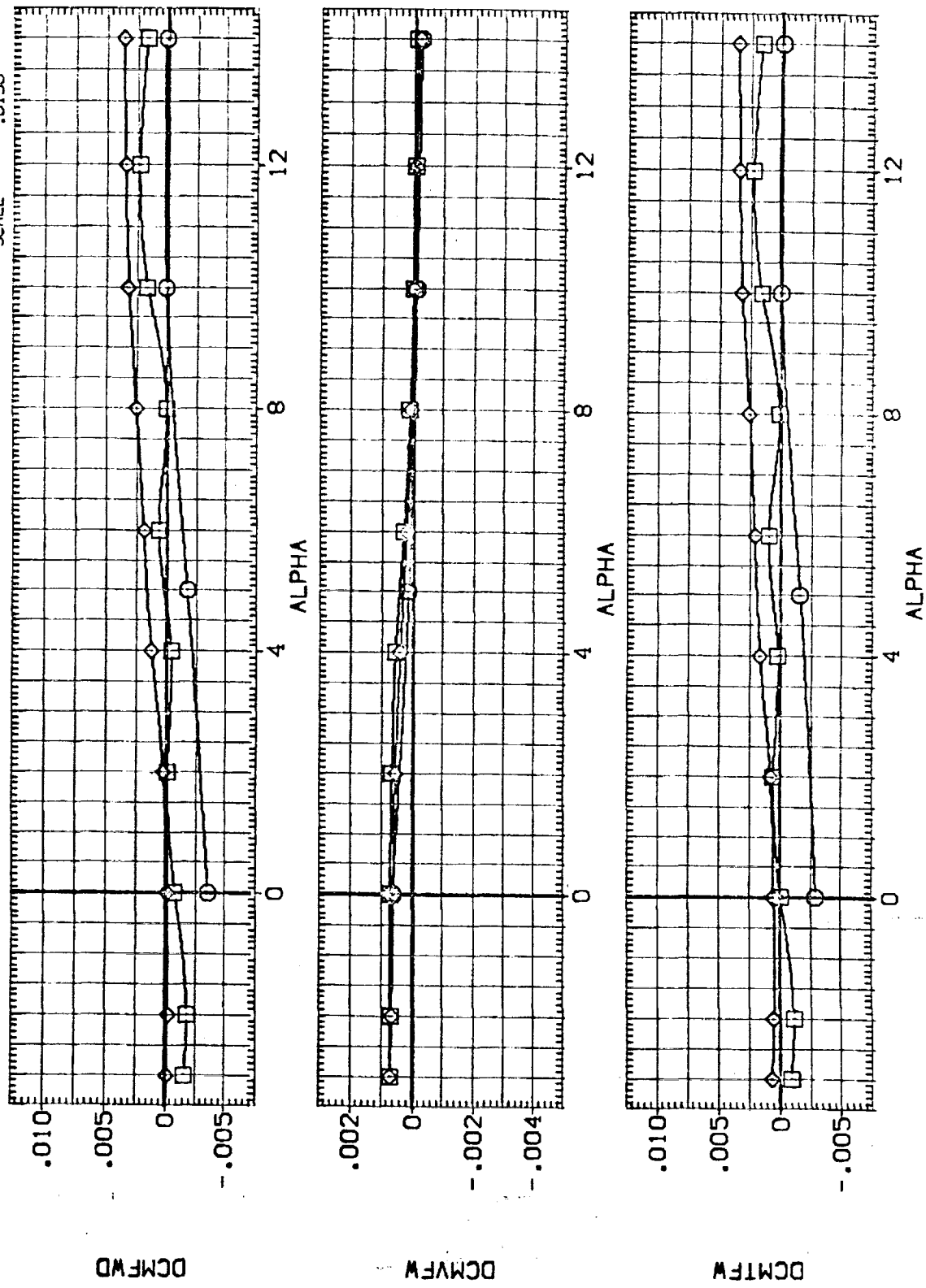
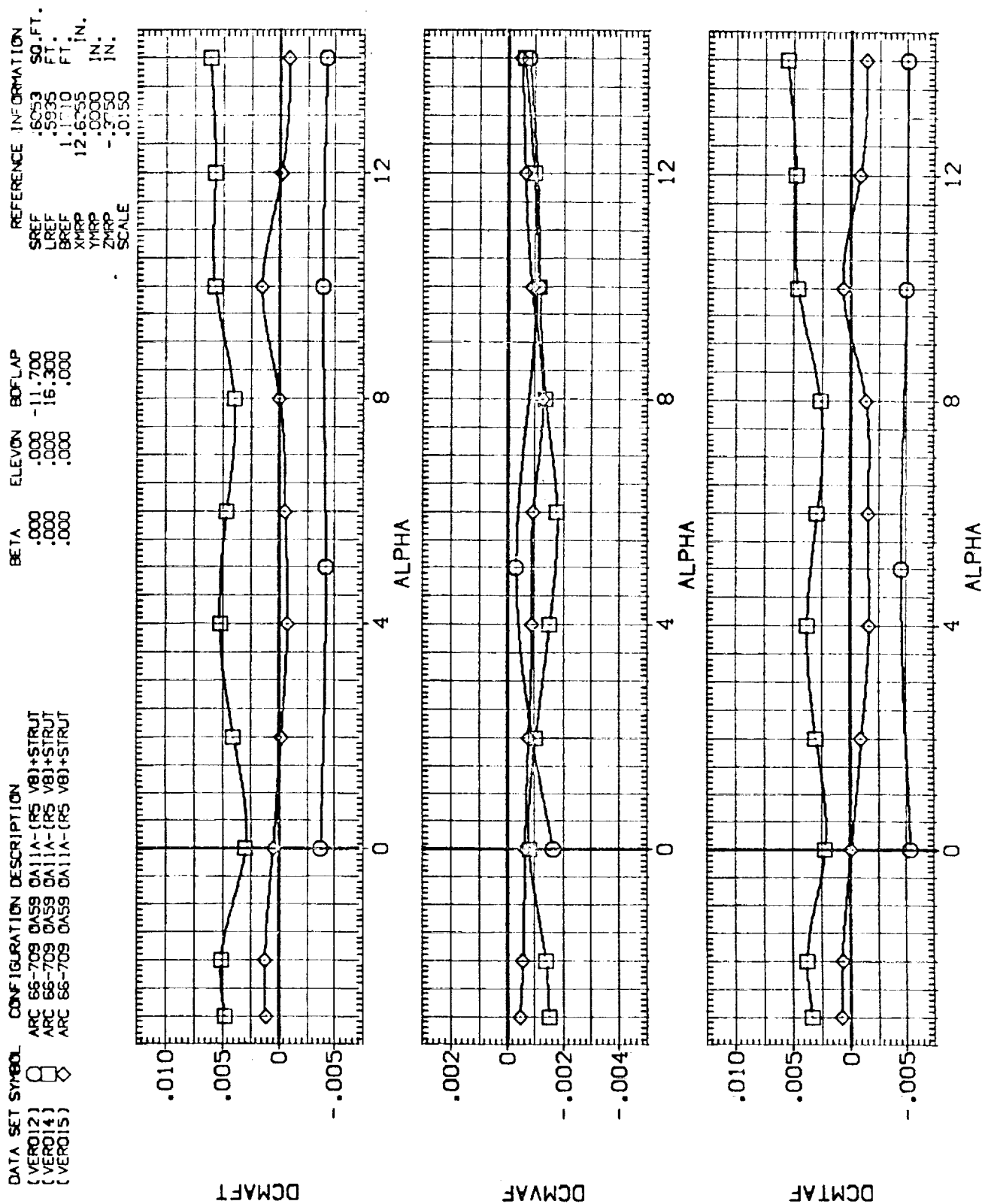


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					ZMRP -.3750 IN.
					SCALE .0150

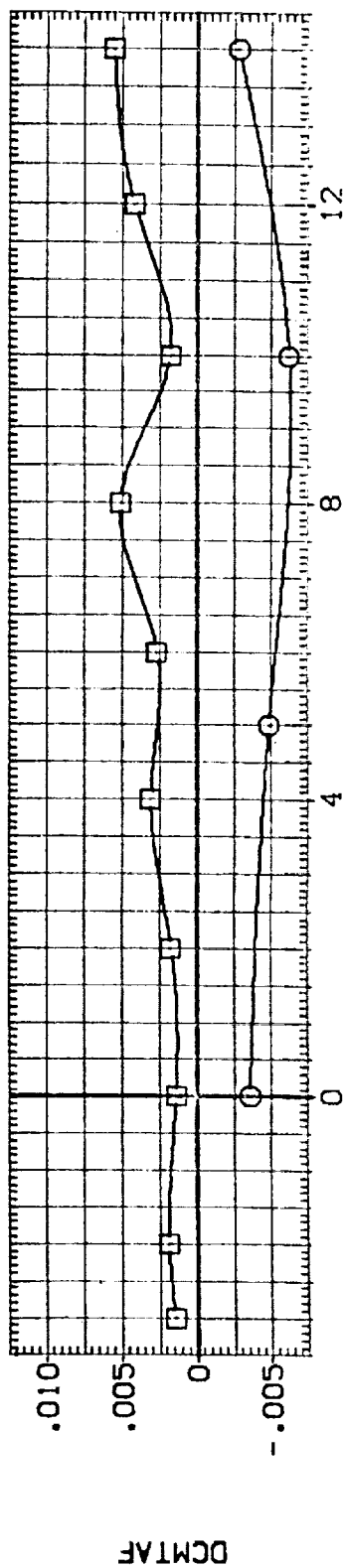
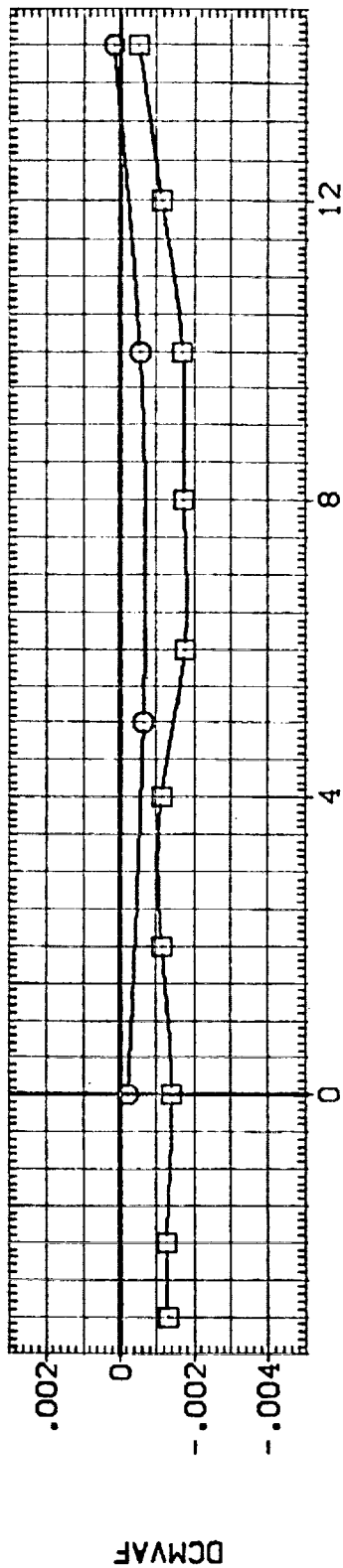
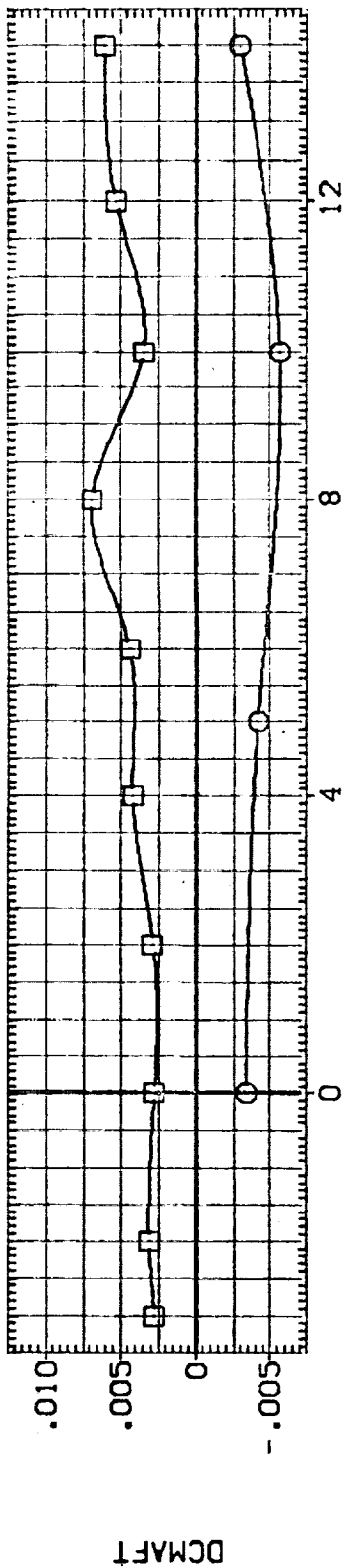


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-709 OAS9 DAI1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{VER014}	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
{VER015}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

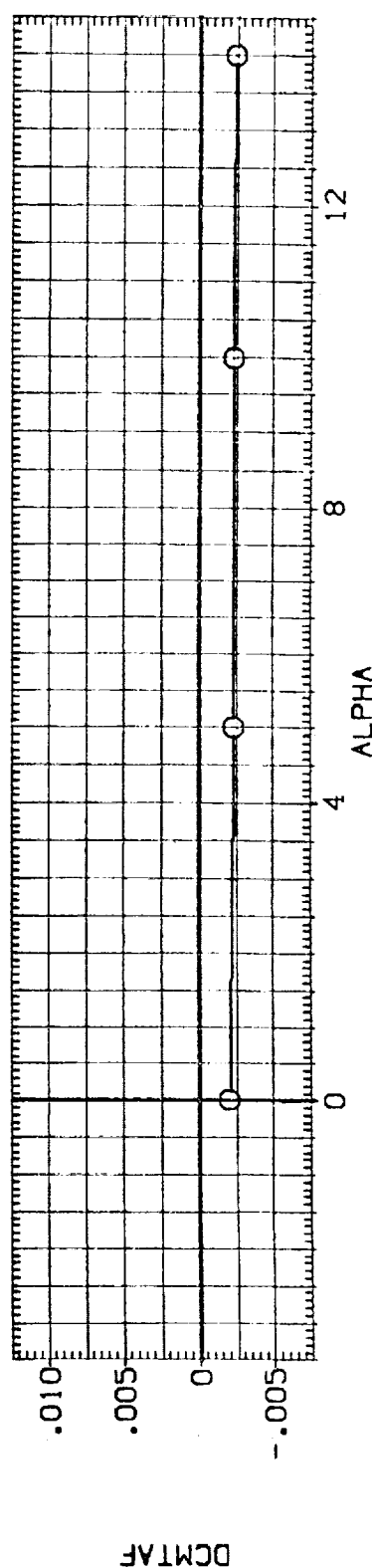
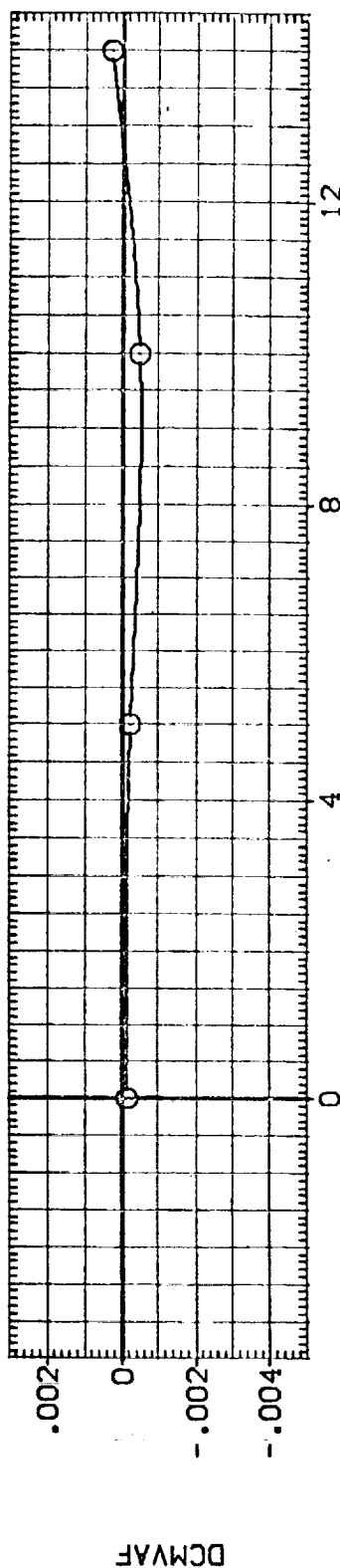
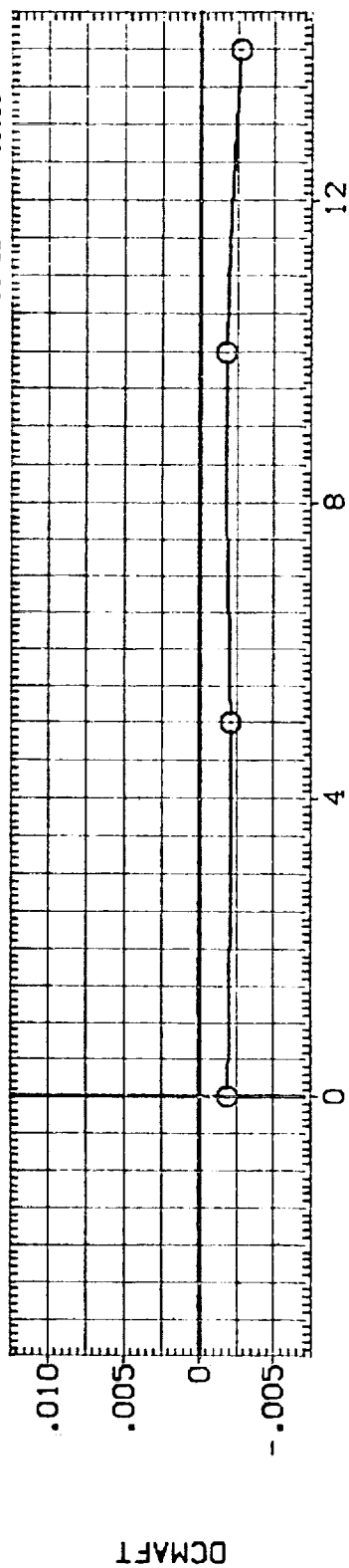


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP -.3750 IN.
					SCALE .0150

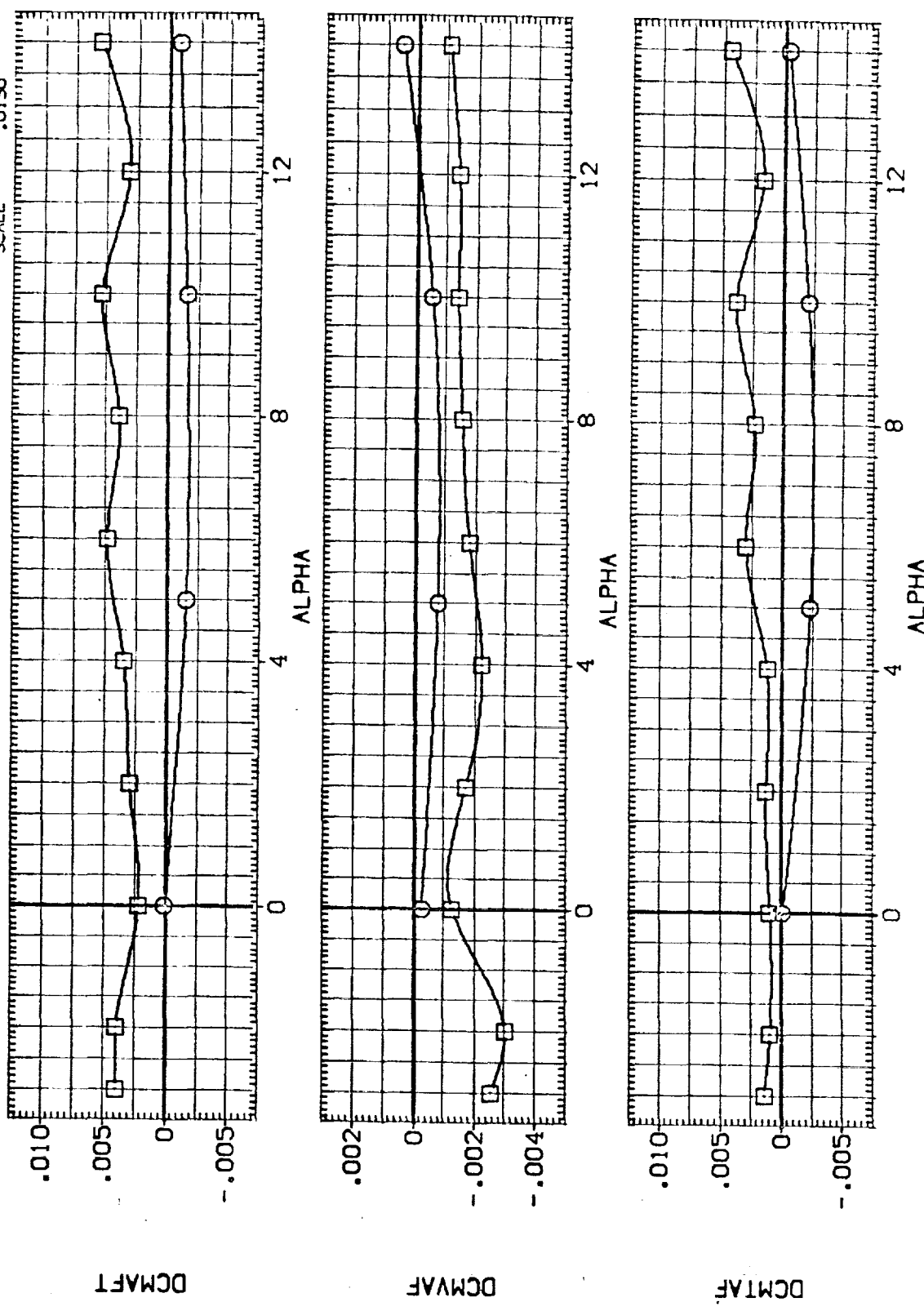


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DASS DA11A-(R5 V8)+STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

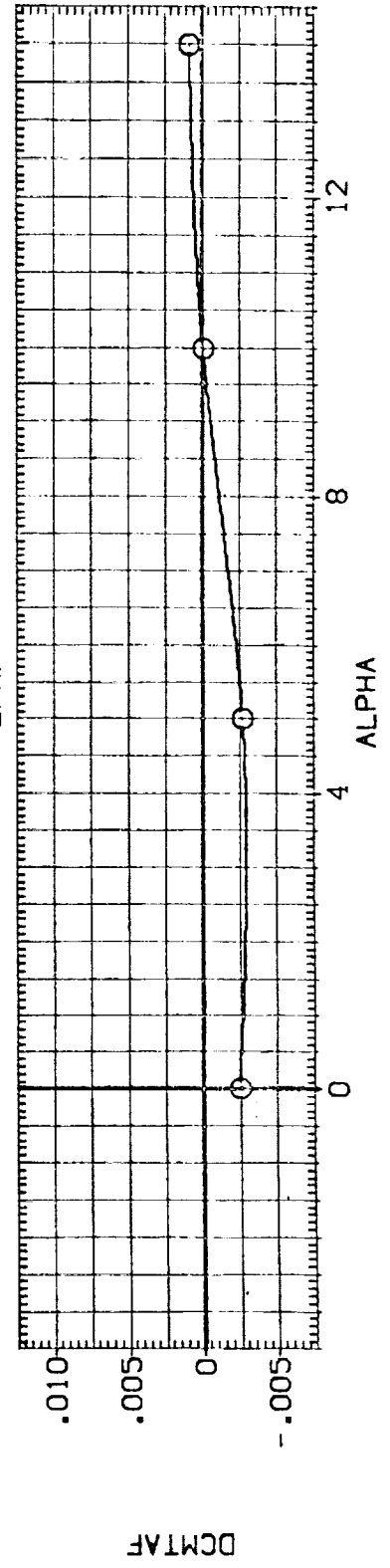
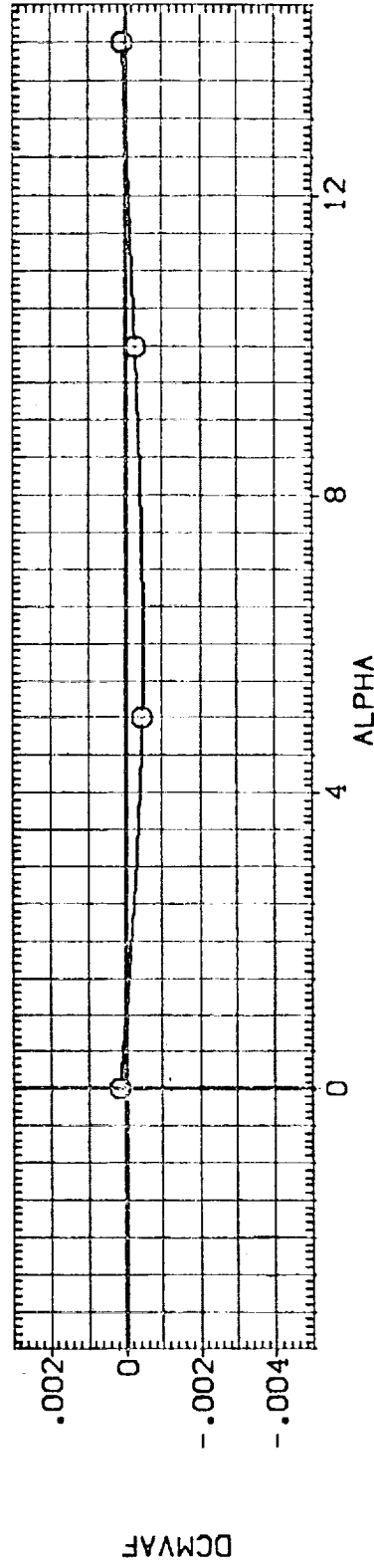
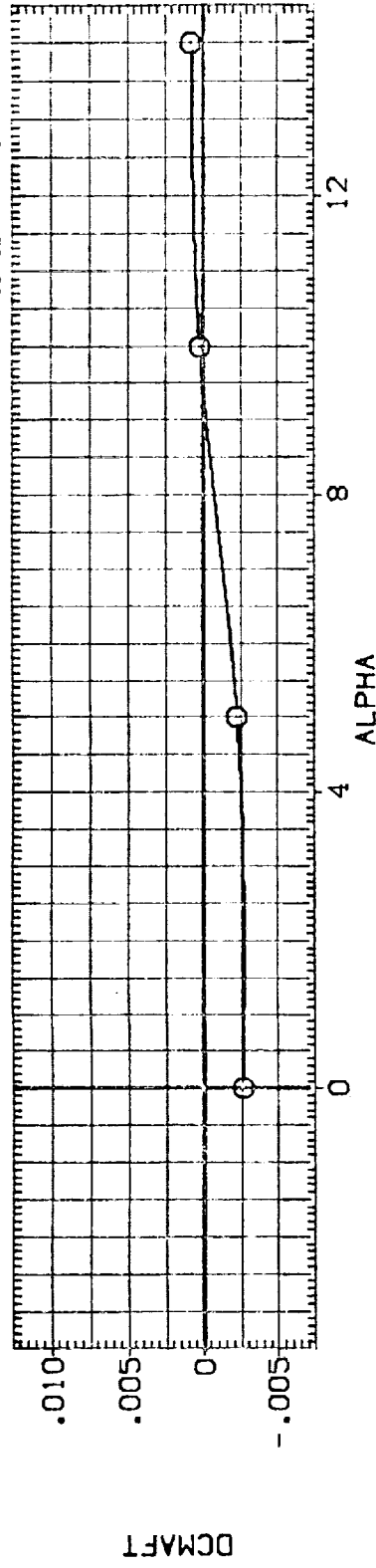


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL: (VER012), (VER014), (VER015)  
 CONFIGURATION DESCRIPTION:  
 ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT  
 ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT  
 ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT  
 REFERENCE INFORMATION:  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

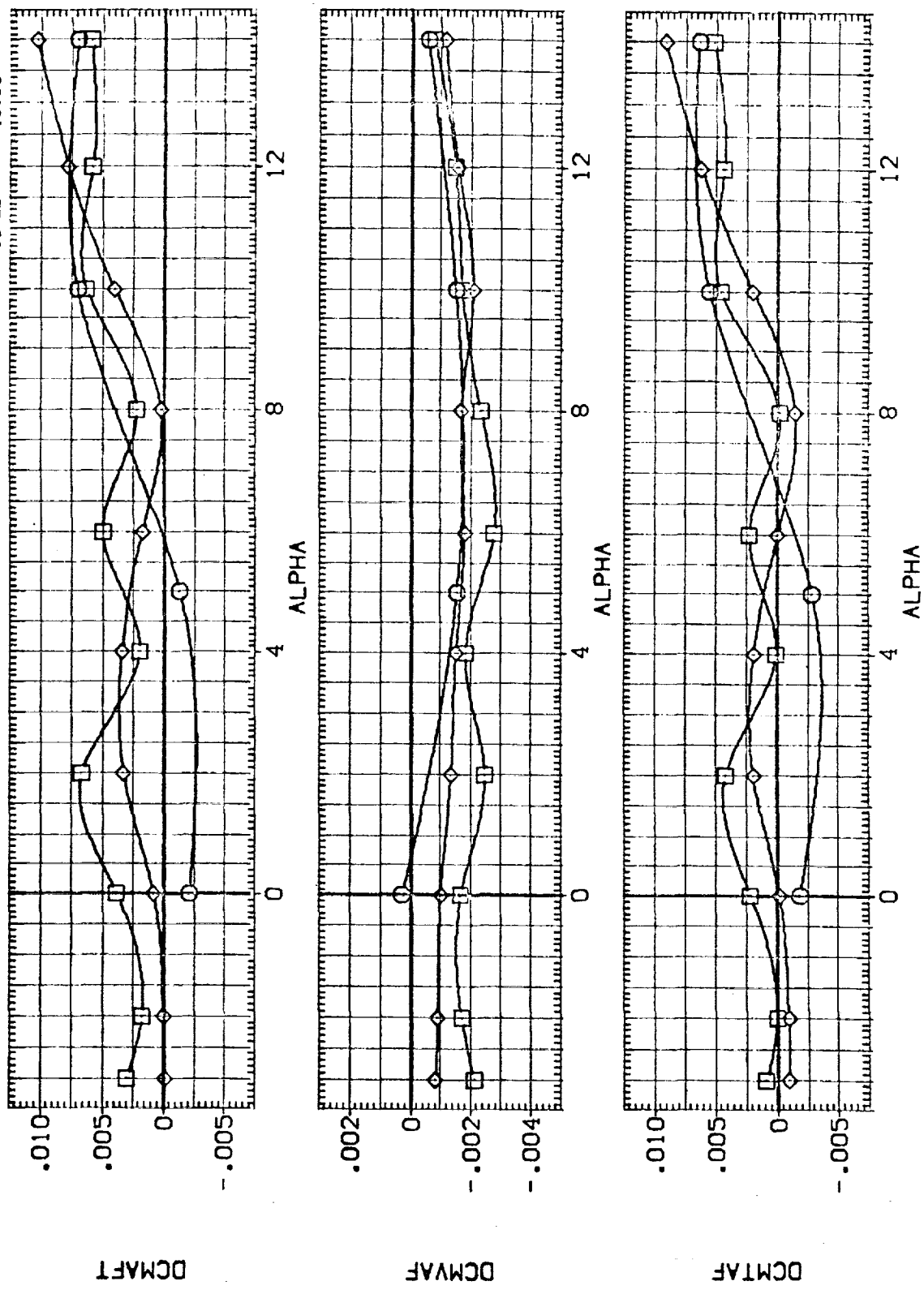


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON 80FLAP  
 .000 .000  
 .000 .000  
 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

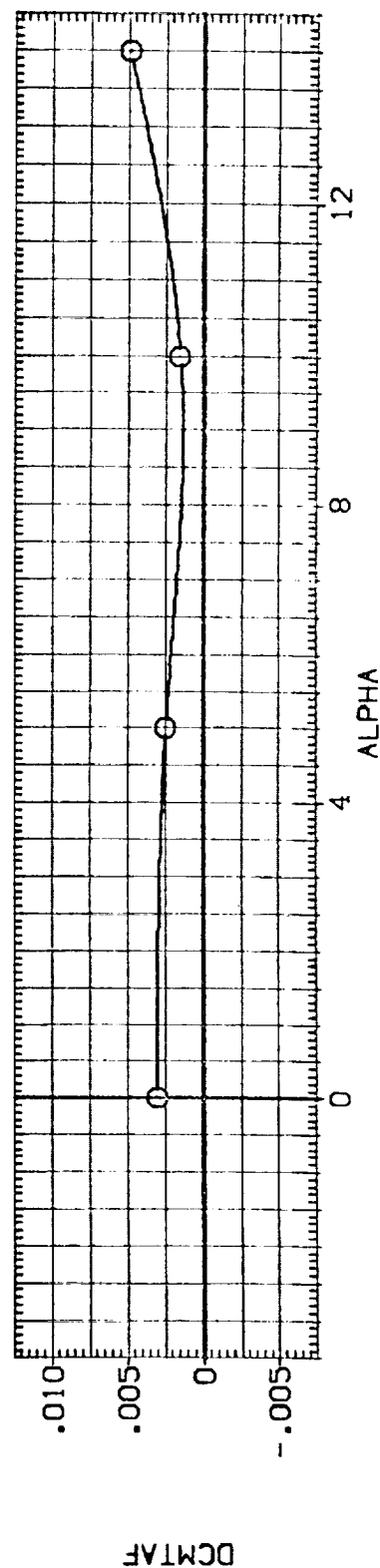
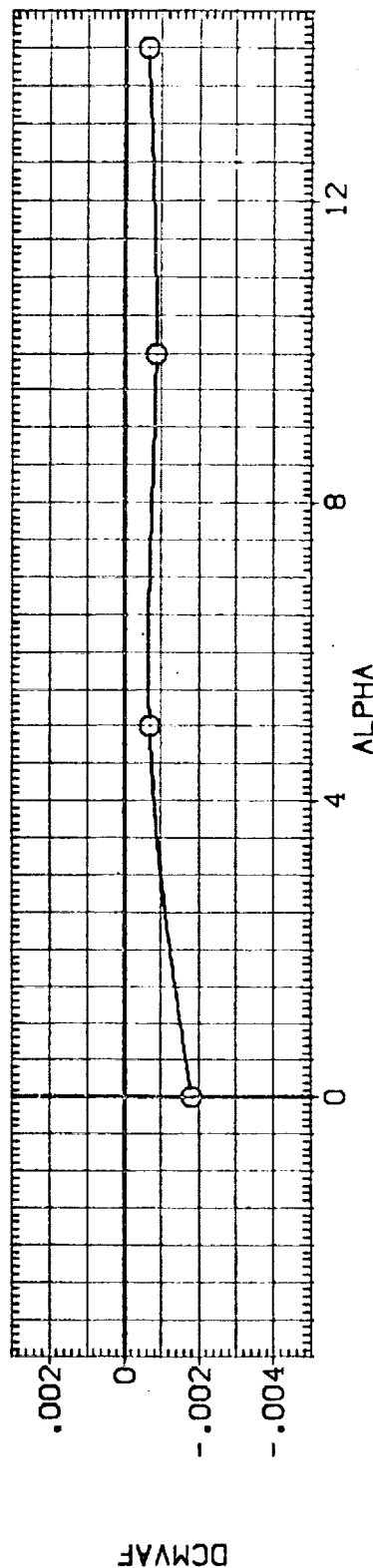
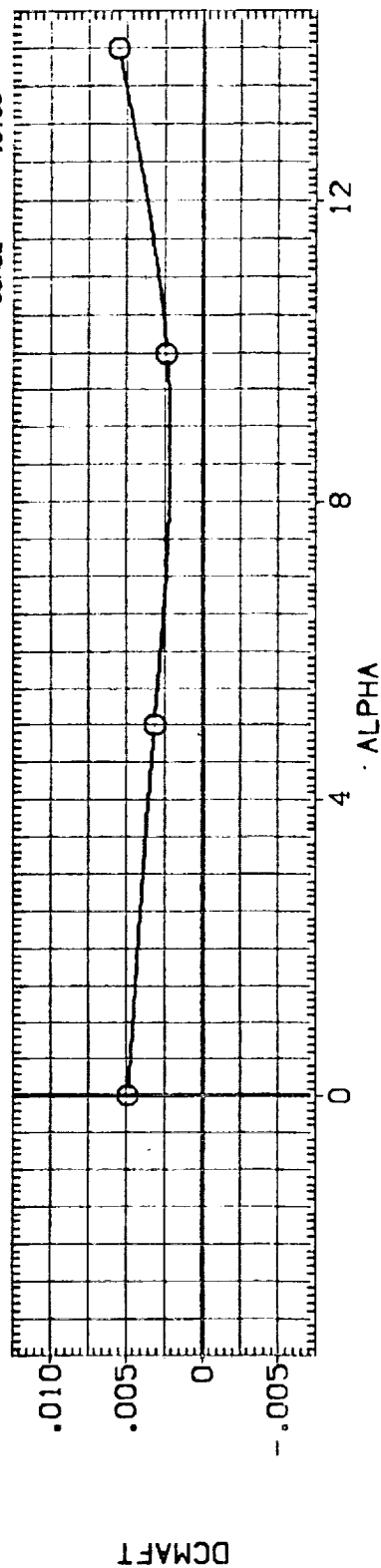


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

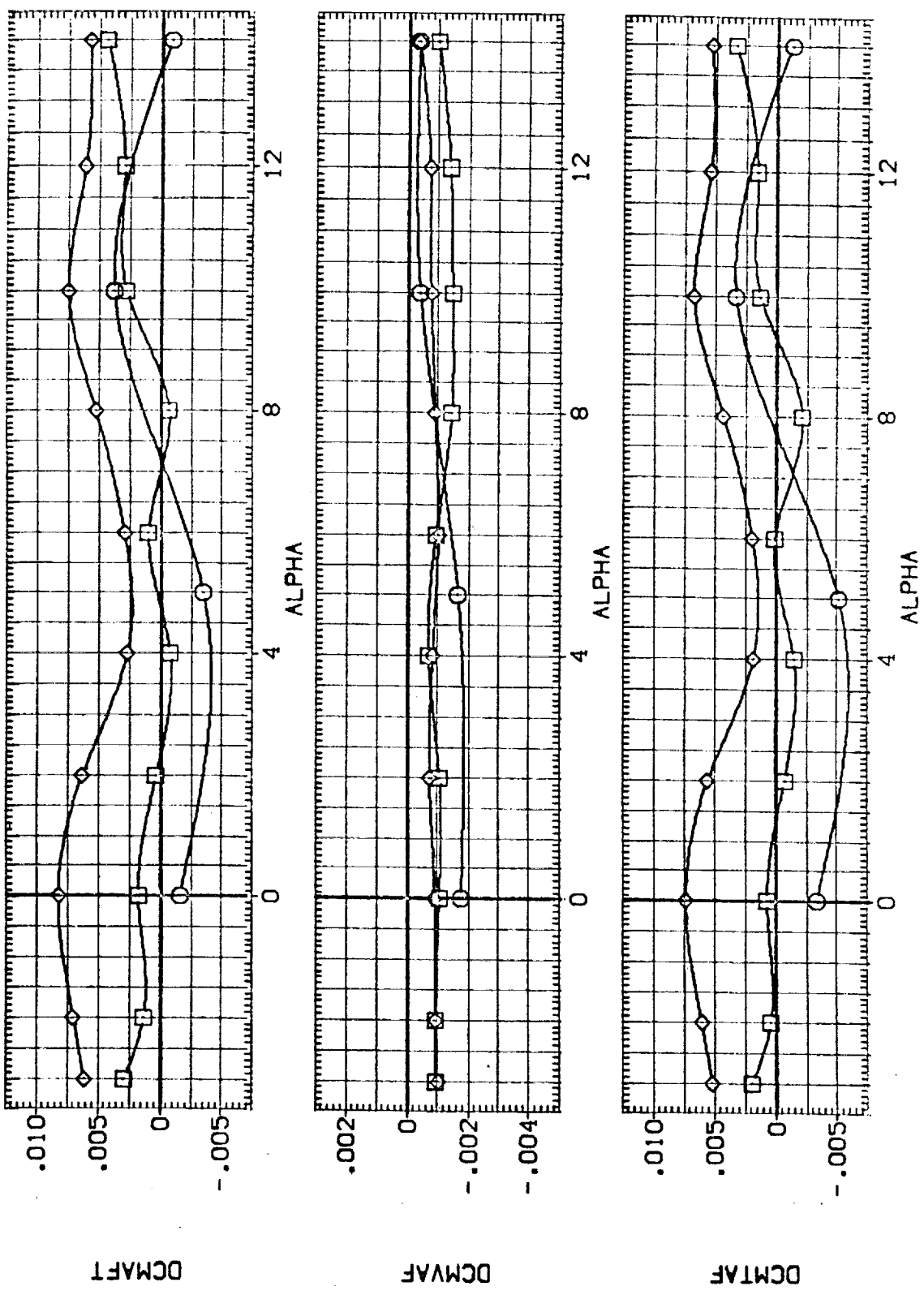


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 OAS9 OALIA-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 OAS9 OALIA-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

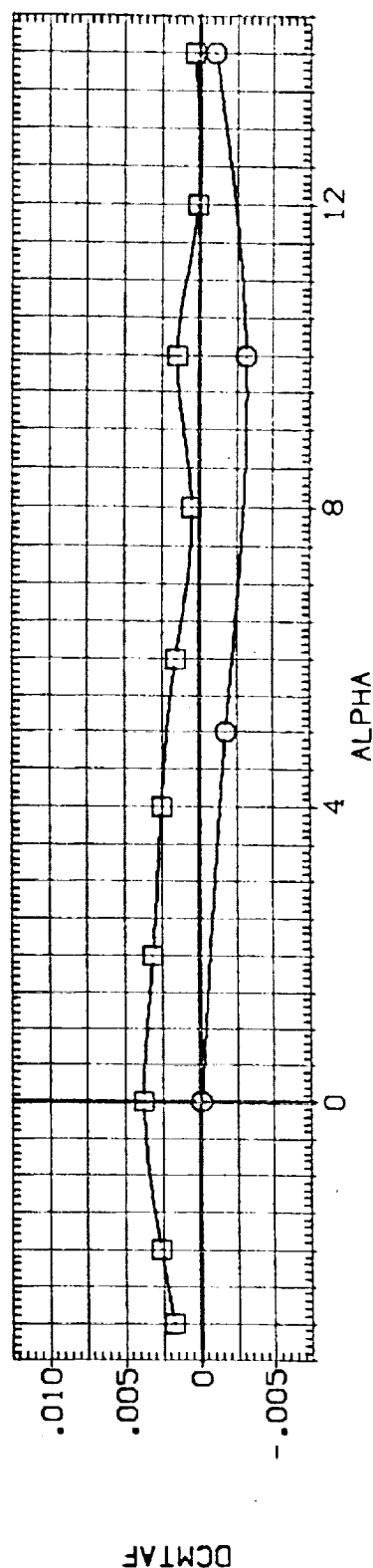
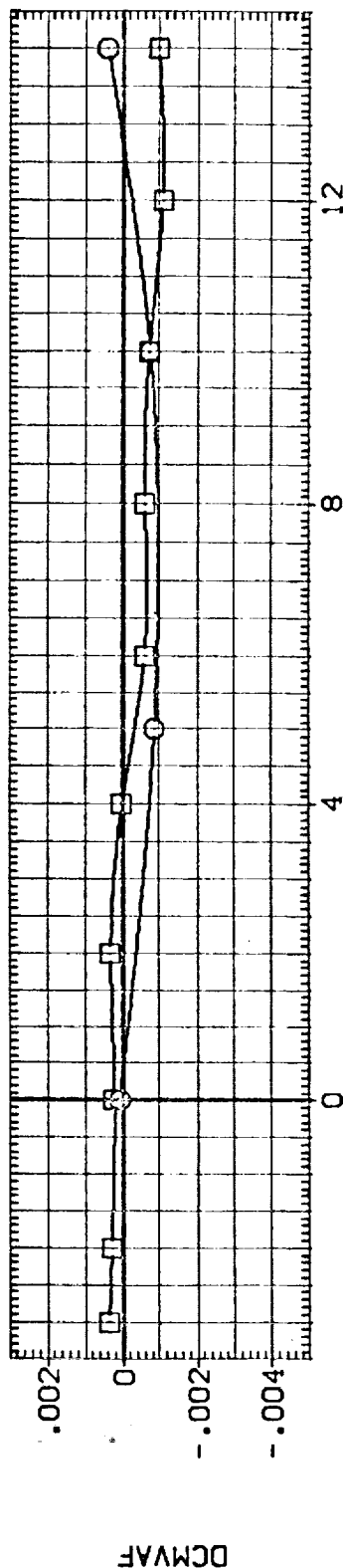
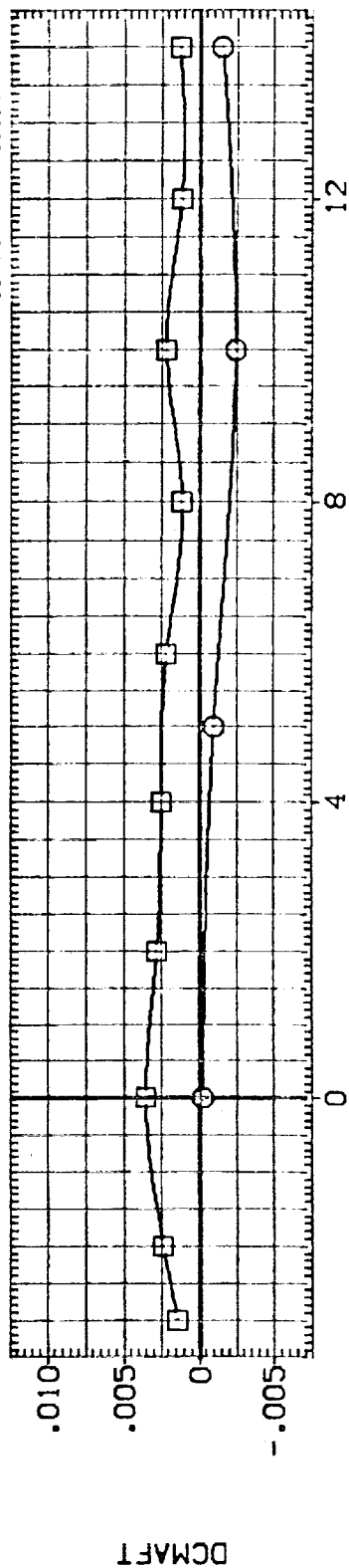


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

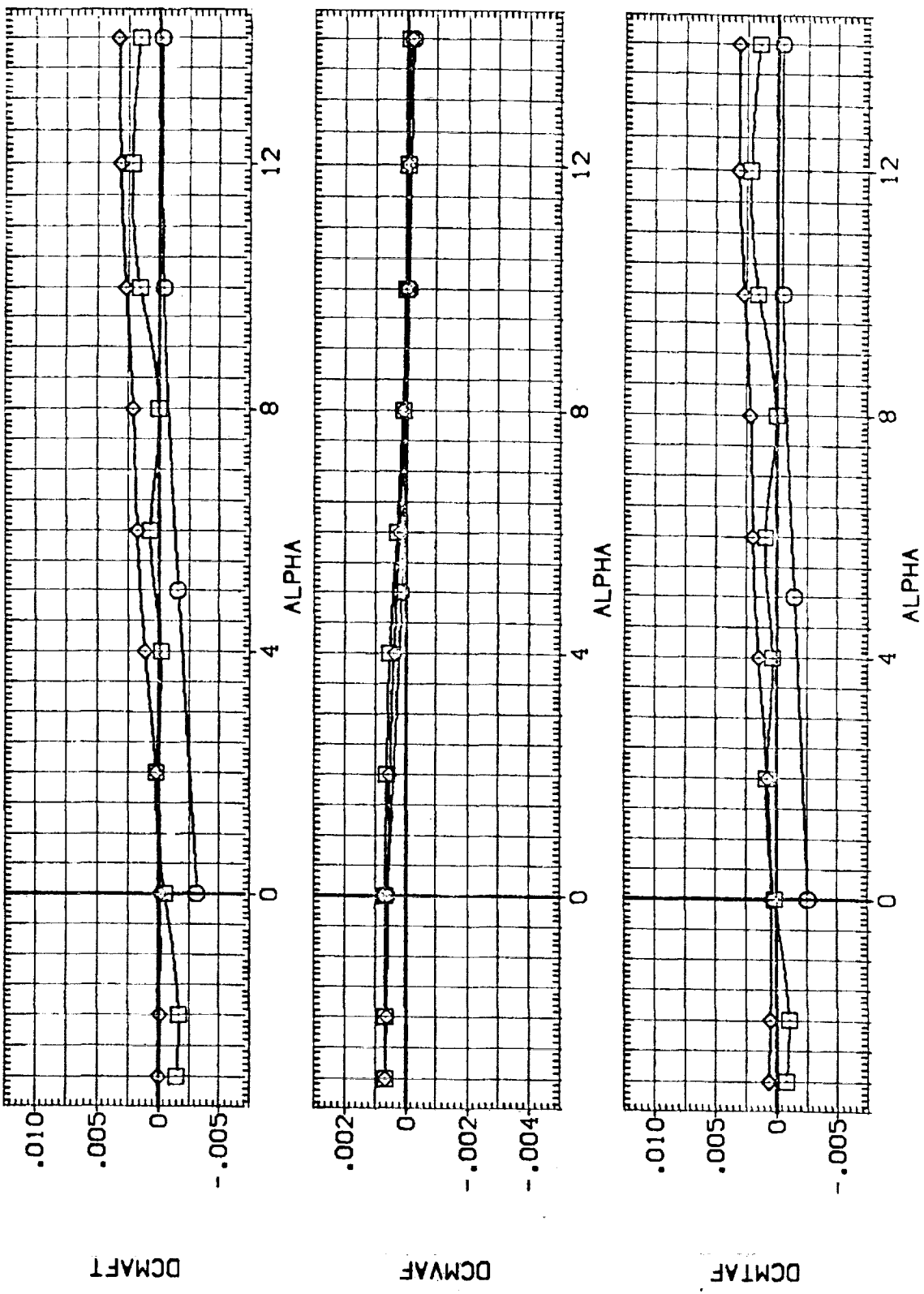


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION	
(VER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	SREF	.6053 SO.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	16.300	LREF	.5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	.000	BREF	1.1710 FT.
					YMRP	12.6255 IN.
					ZMRP	.0000 IN.
					SCALE	-.3750 IN.
						.0150

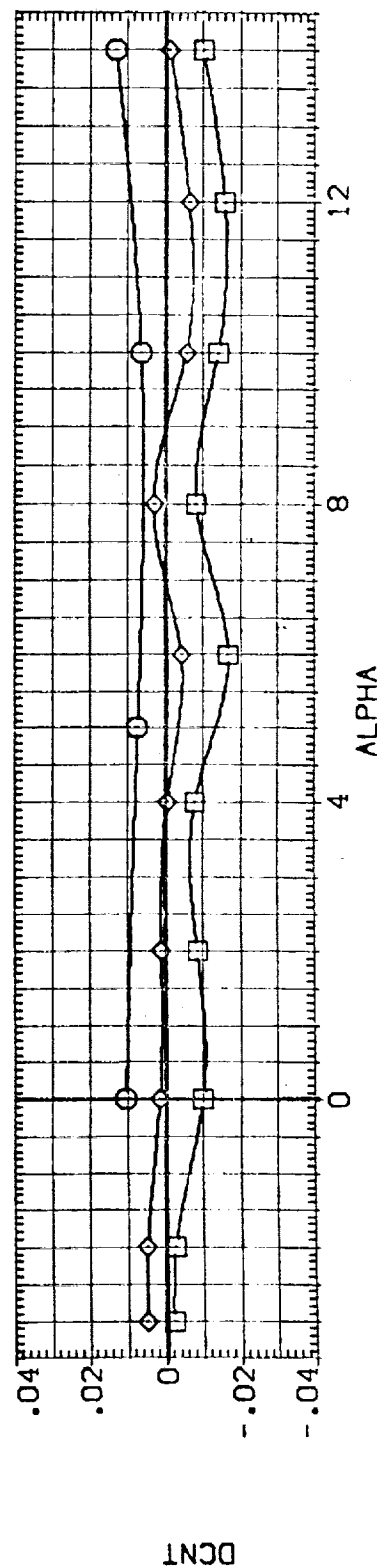
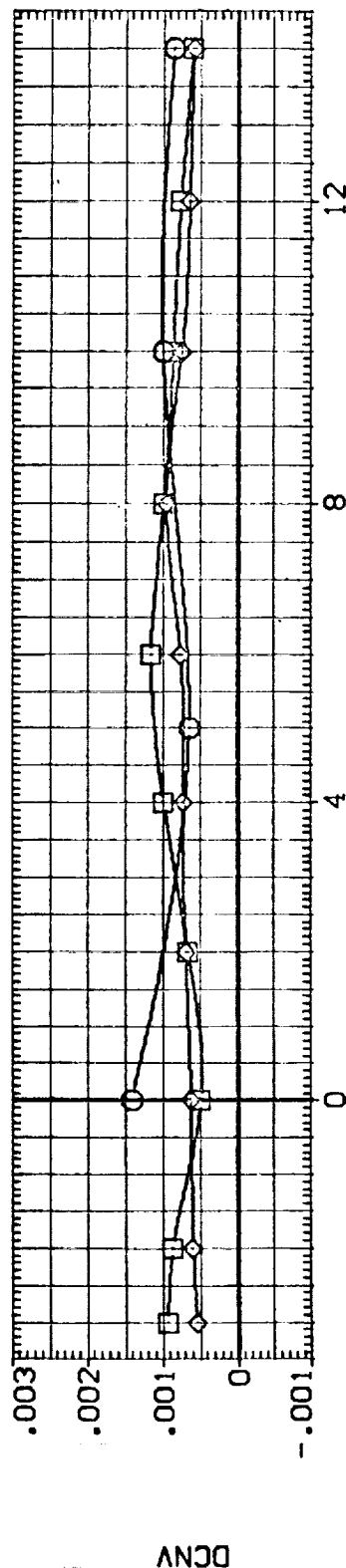
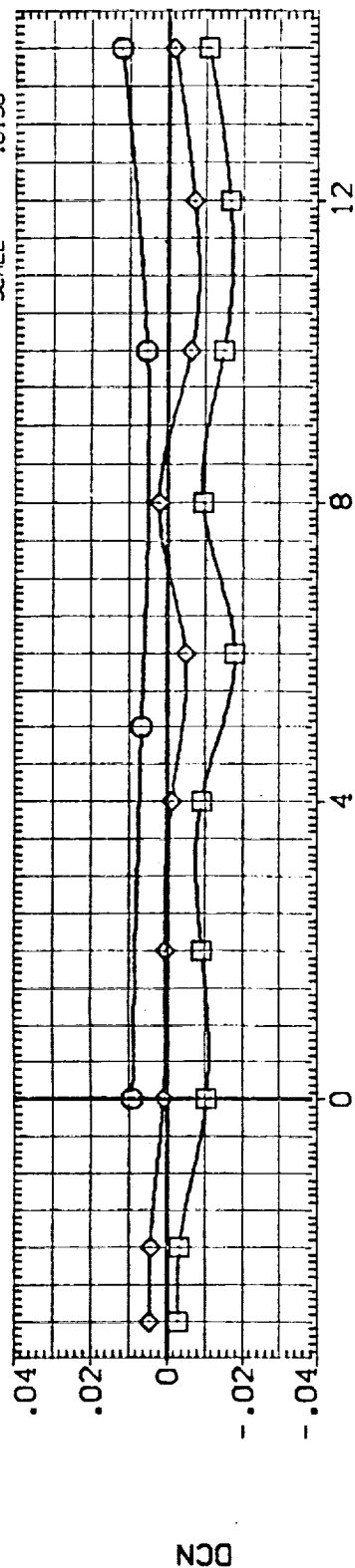


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VERO12) ARC 66-709 D459 D411A-(R5 V8)+STRUT  
 (VERO14) ARC 66-709 D459 D411A-(R5 V8)+STRUT  
 (VERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

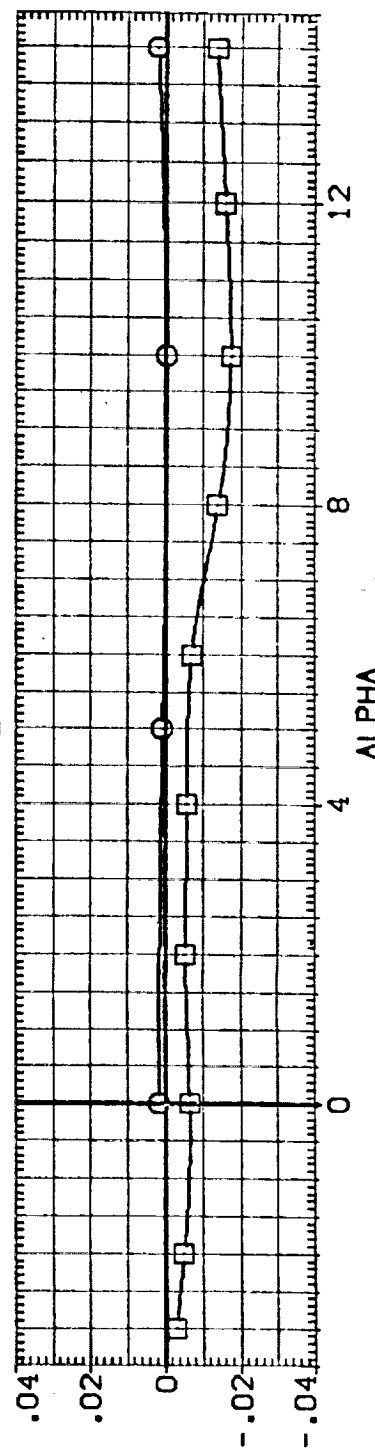
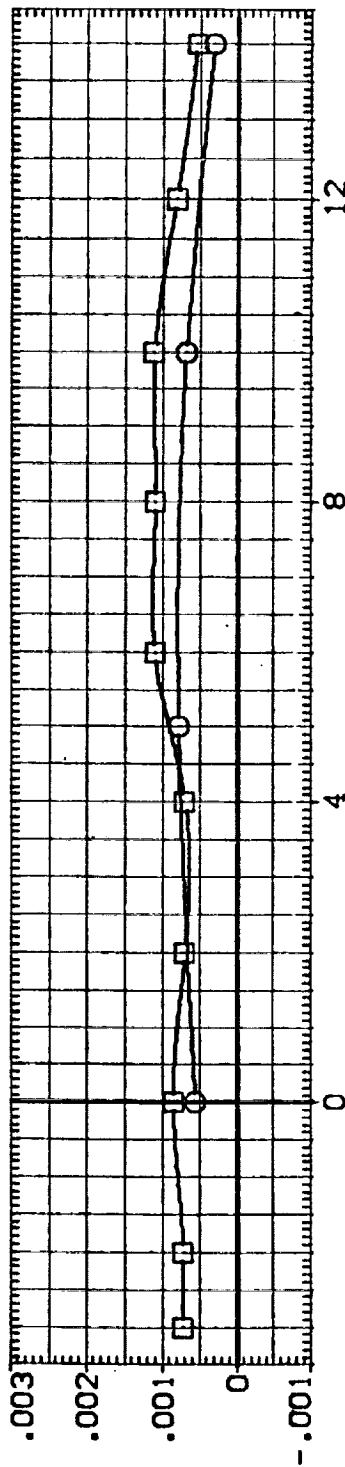
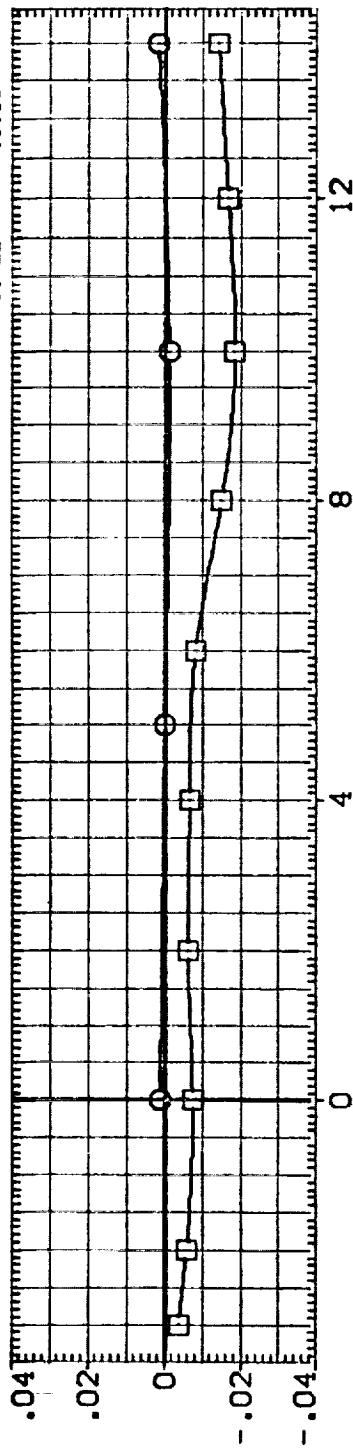


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 SQ.FT.
(VER014)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

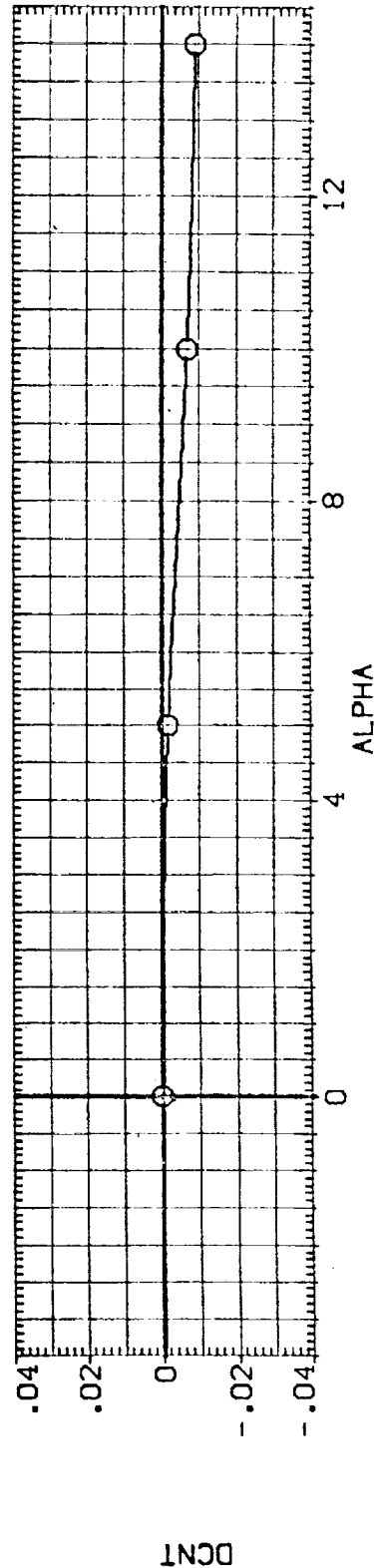
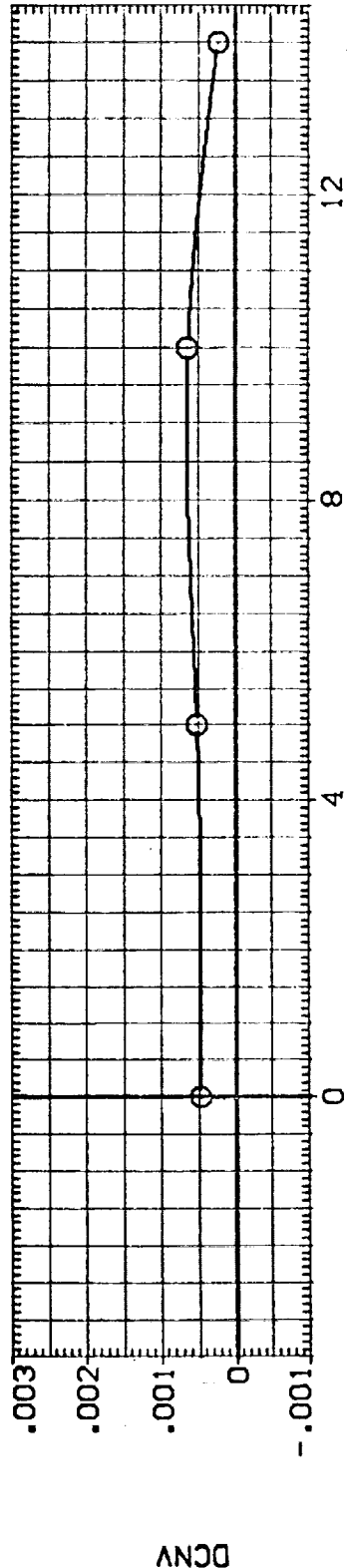
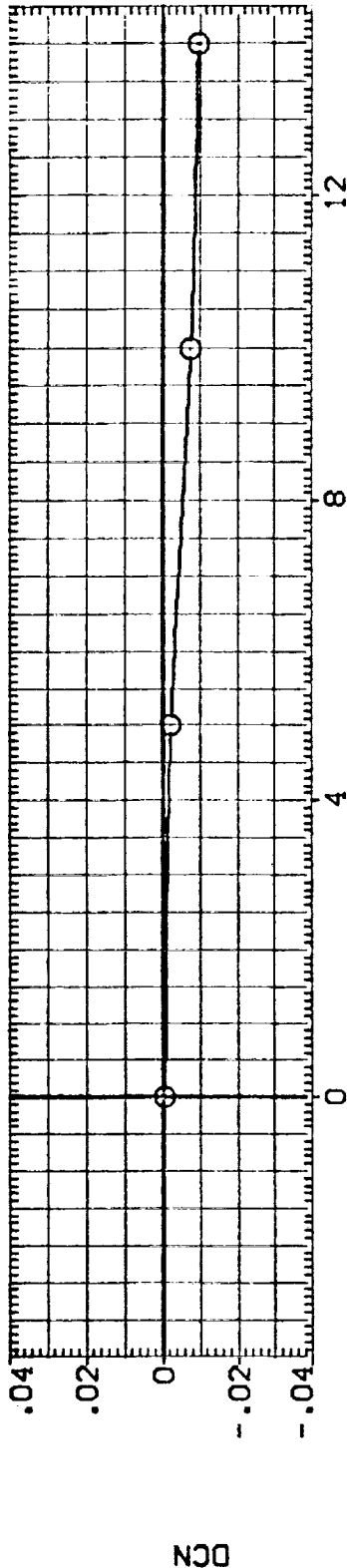


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 OAS9 DAI1A-(R5 V81)*STRUT	.000	.000	-11.700	SREF .6053 SO.FT.
(VERO14)	ARC 66-709 OAS9 DAI1A-(R5 V81)*STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

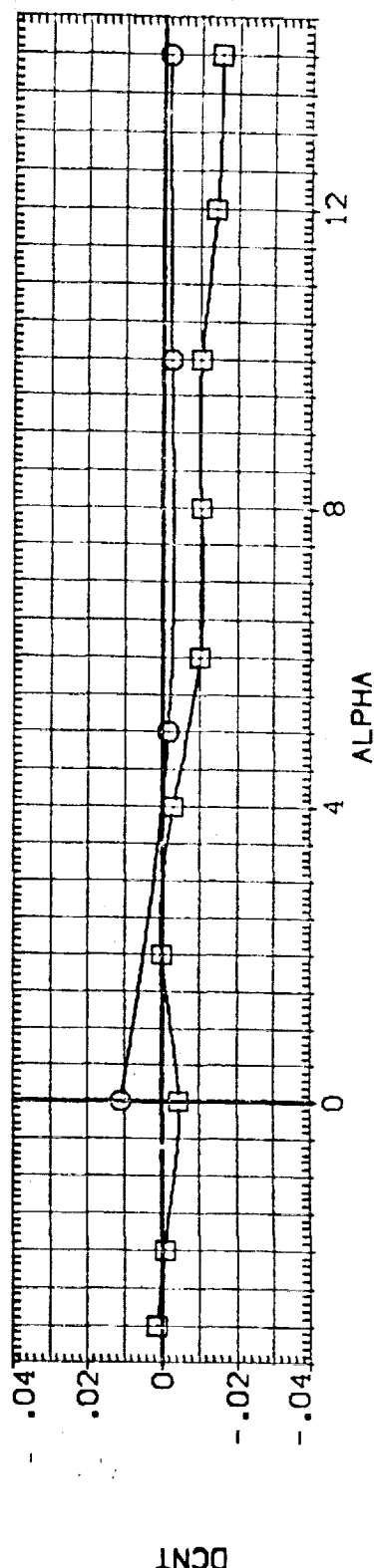
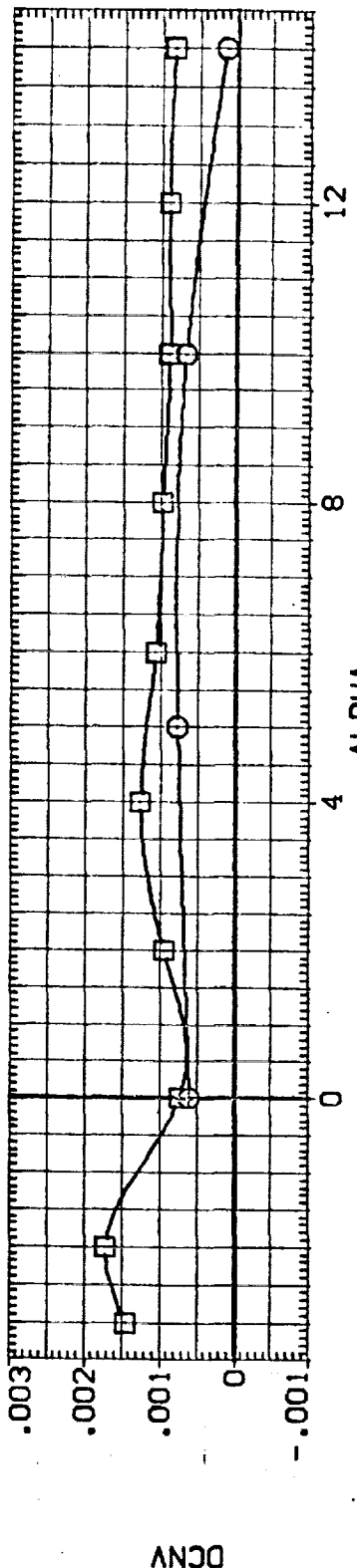
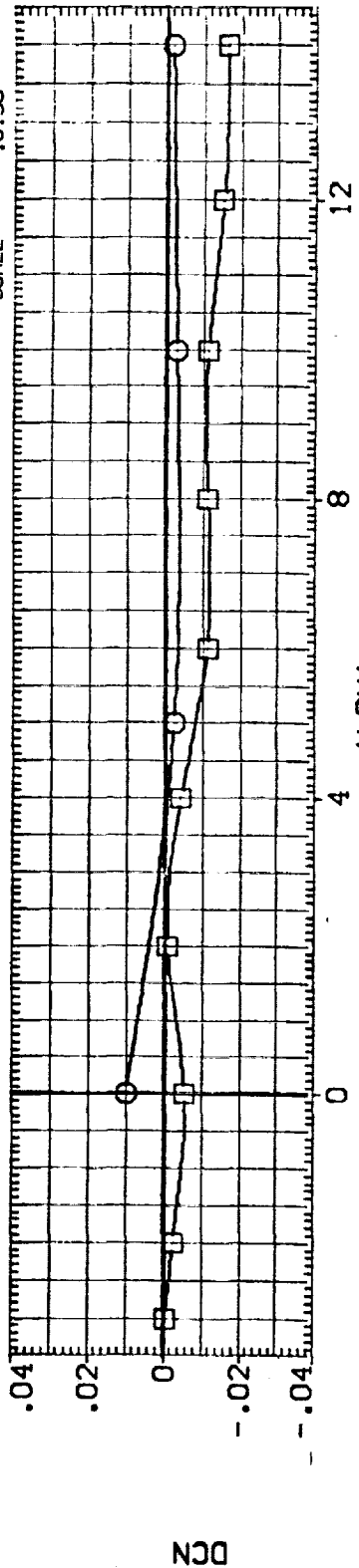


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(D)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 OAS9 0A11A-(R5 V8)\*STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

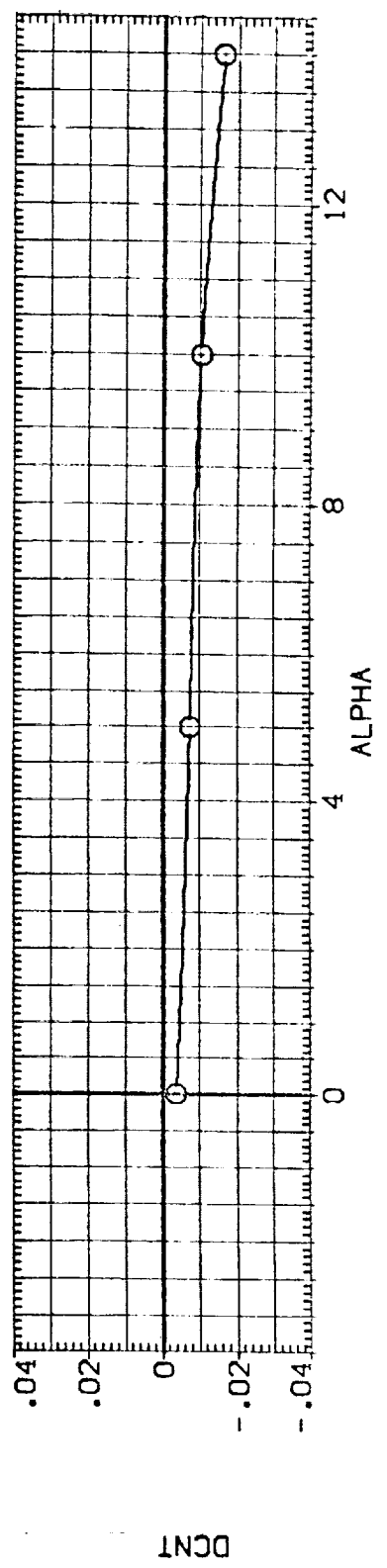
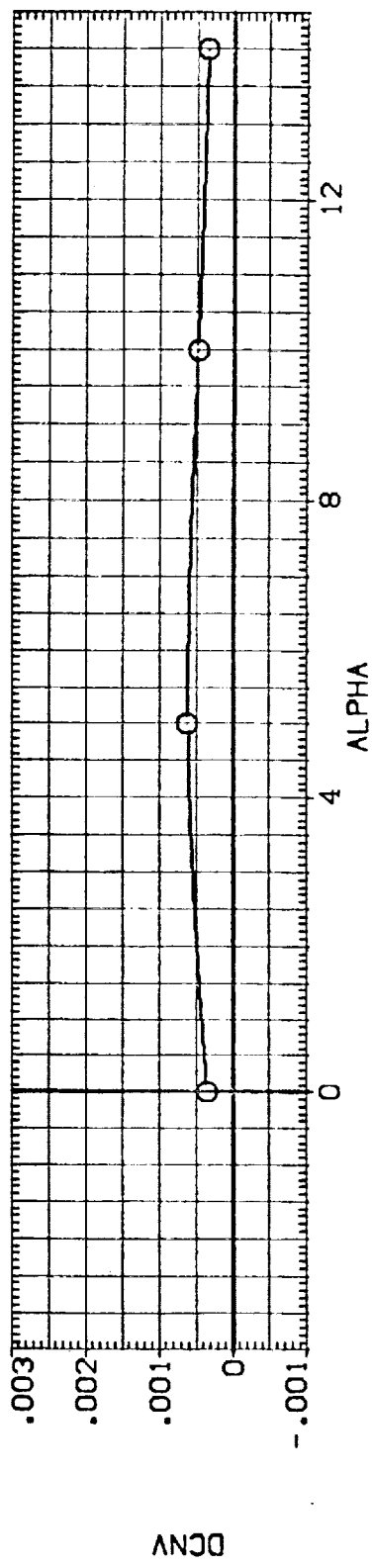
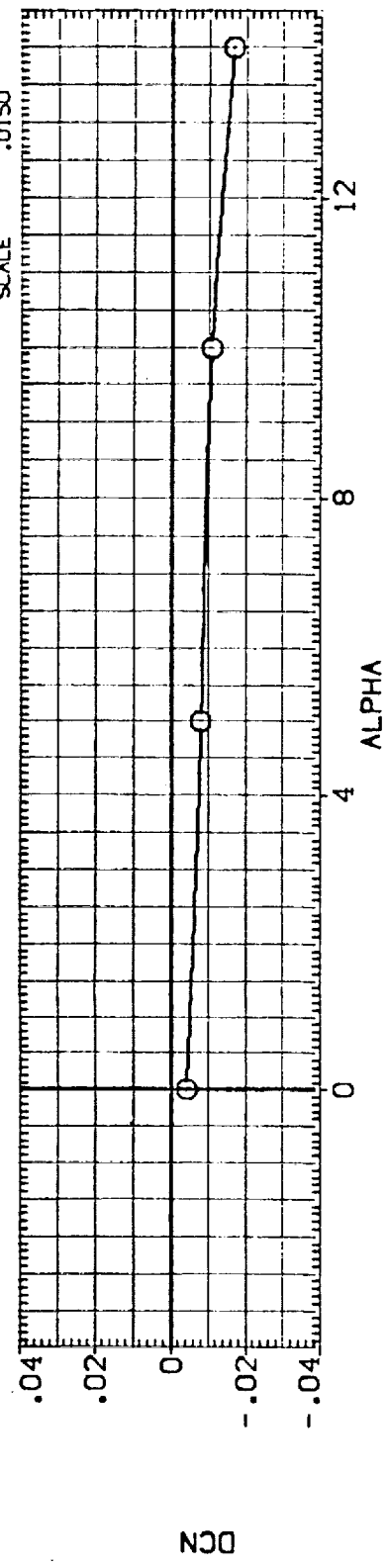


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5835 FT.
(VERO15)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1110 FT.
					XMRP 12.6235 IN.
					YMRP .0000 IN.
					ZMRP -.3150 IN.
					SCALE .0150

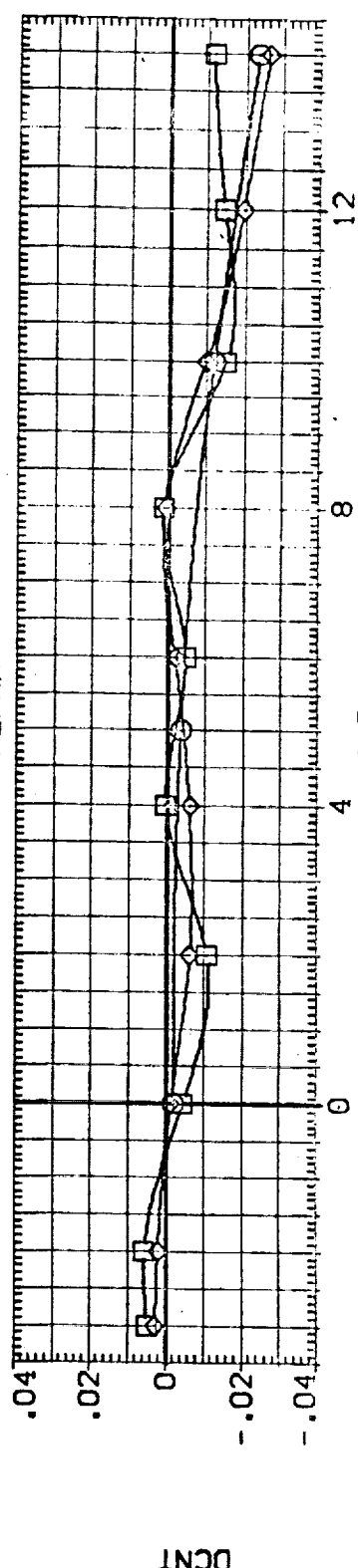
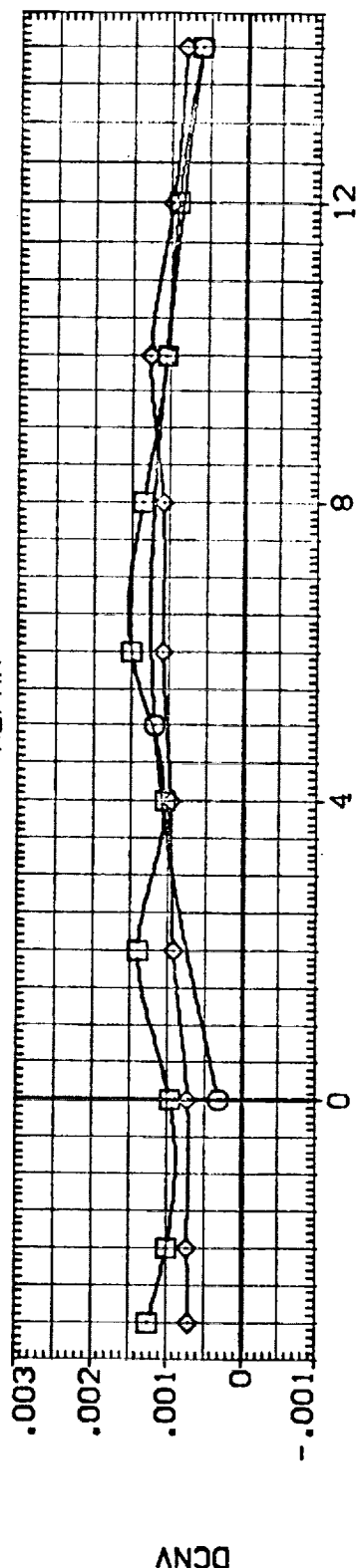
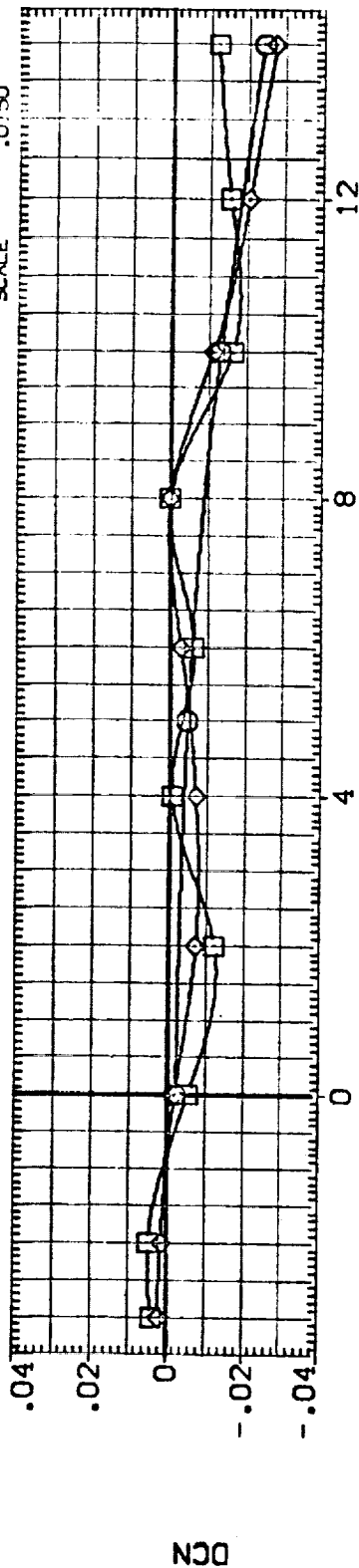


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90



DATA SET SYMBOL (VER012) (VER014) (VER015)

CONFIGURATION DESCRIPTION  
ARC 66-709 0A59 0A11A-(RS V8)+STRUT  
DATA NOT AVAILABLE  
DATA NOT AVAILABLE

BETA .000 .000 .000

ELEVON .000 .000 .000

BOFLAP -11.700 16.300 .000

REFERENCE INFORMATION  
SREF .6053 SQ.FT.  
LREF .5935 FT.  
BREF 1.1710 FT.  
XMRP 12.6255 IN.  
YMRP .0000 IN.  
ZMRP -.3750 IN.  
SCALE .0150

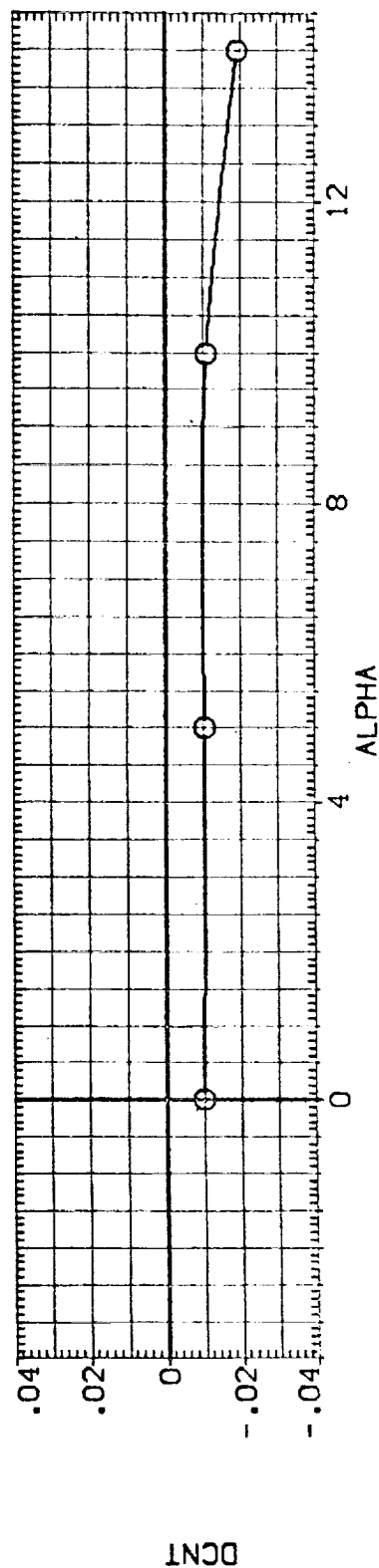
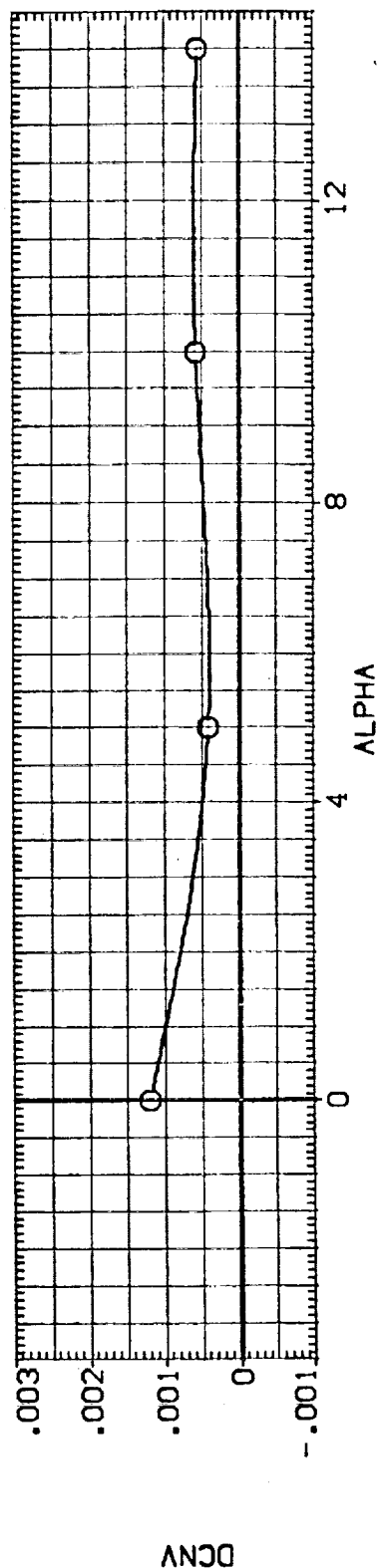
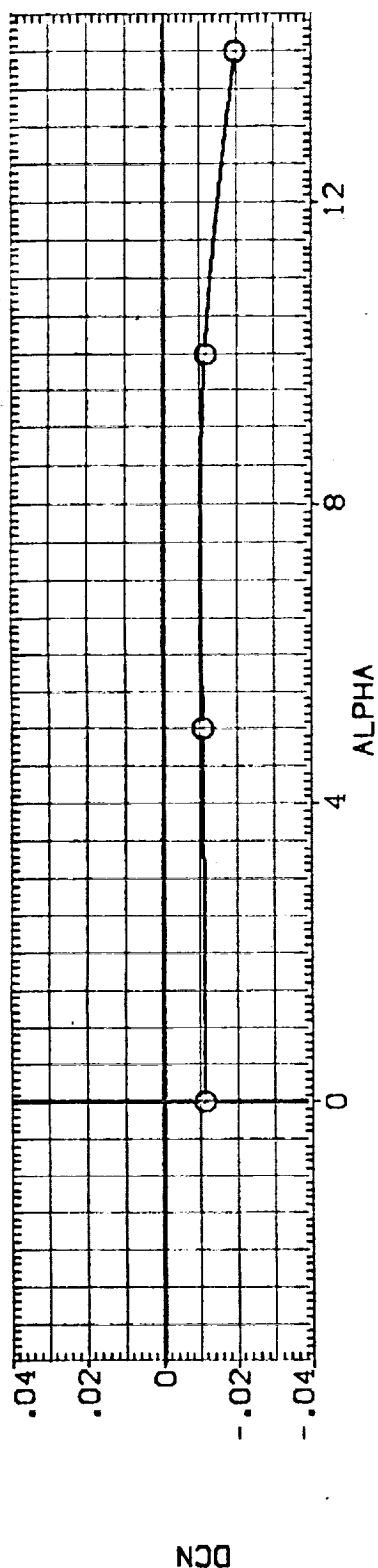


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS VB1)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRF 12.6255 IN.
					YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

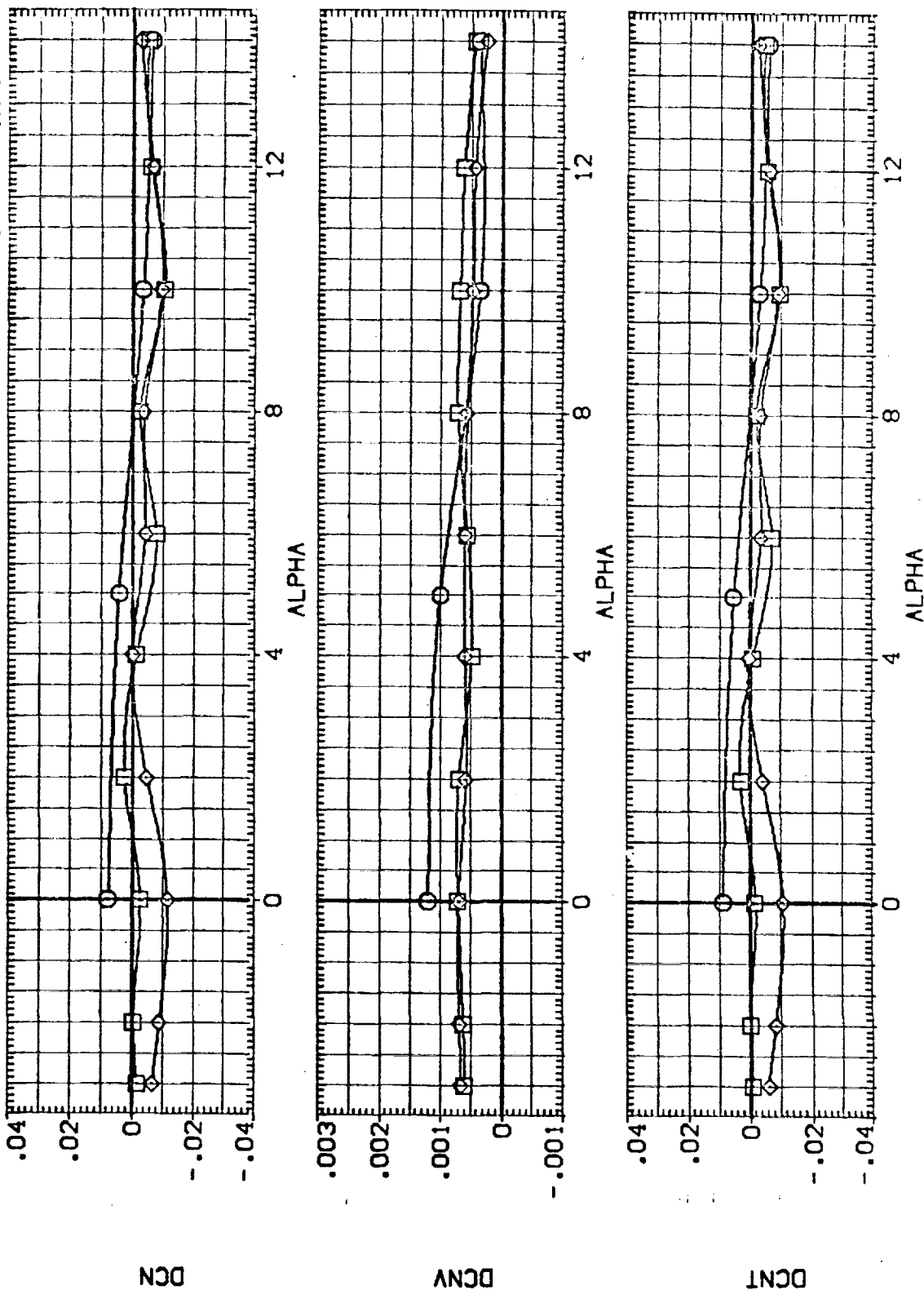


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20

DATA SET SYMBOL: (VERO12) (VERO14) (VERO15)

CONFIGURATION DESCRIPTION: ARC 66-709 DASS DALLA-(RS V81)+STRUT DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 16.300 .000

REFERENCE INFORMATION: SREF 6053 50 FT. LREF 5935 FT. BREF 1.1710 FT. XMRP 12.6255 IN. YMRP .0000 IN. ZMRP -.3750 IN. SCALE .0150

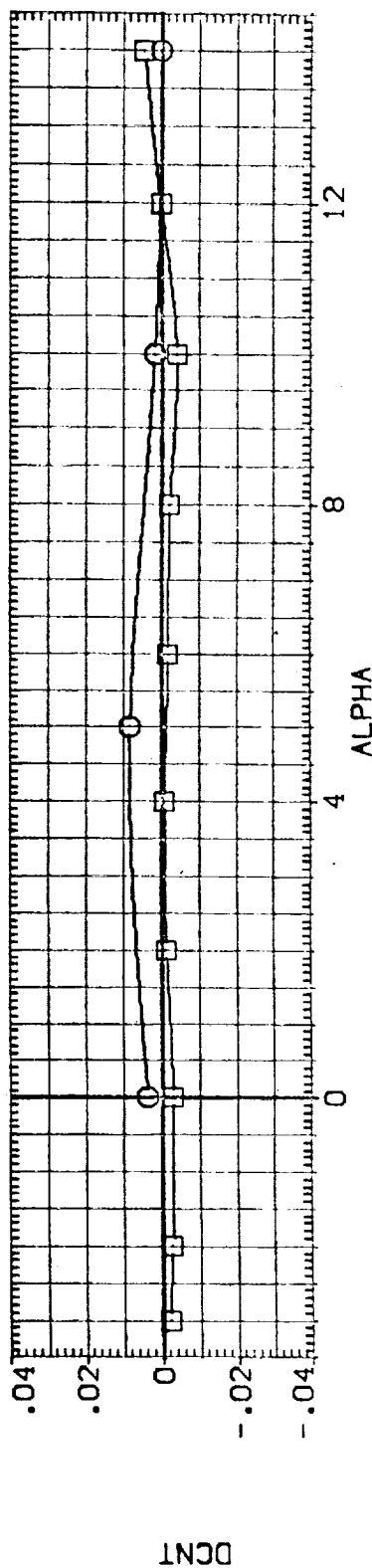
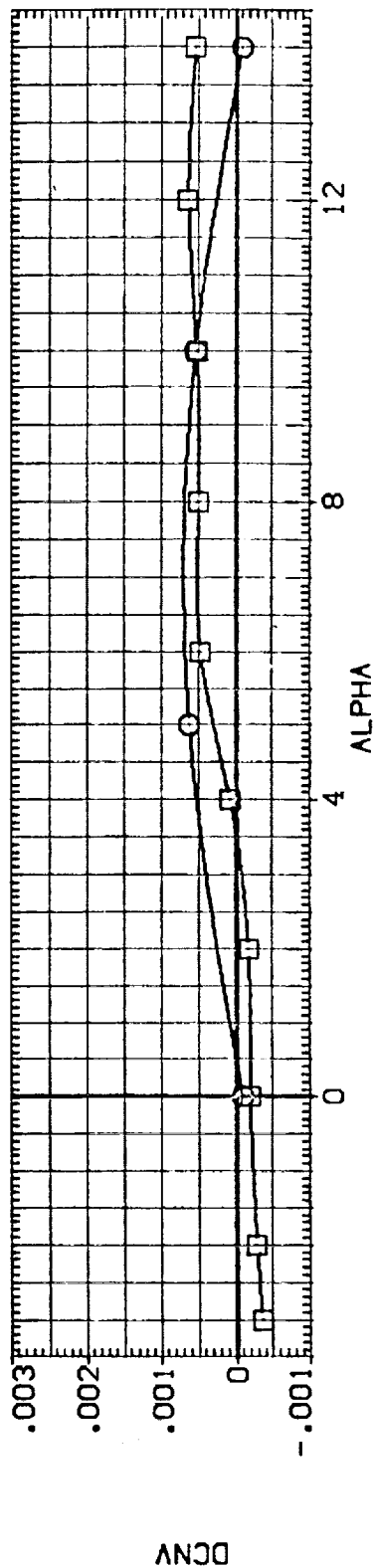
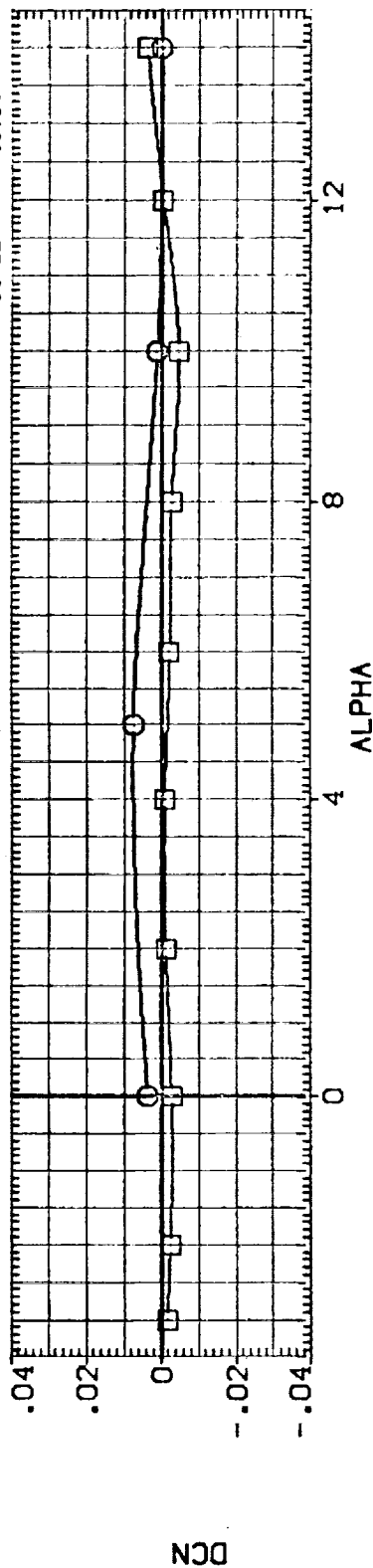


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

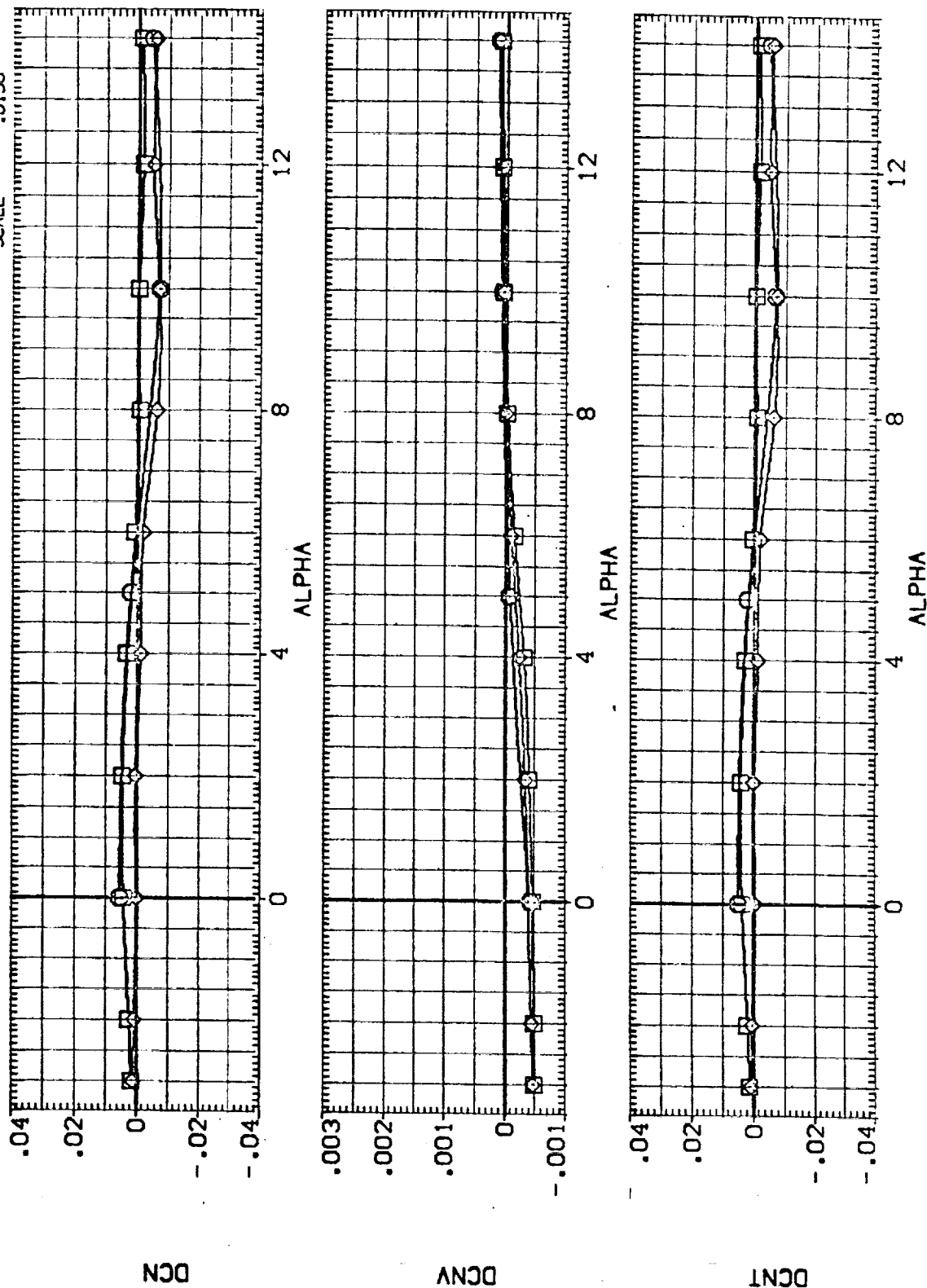


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

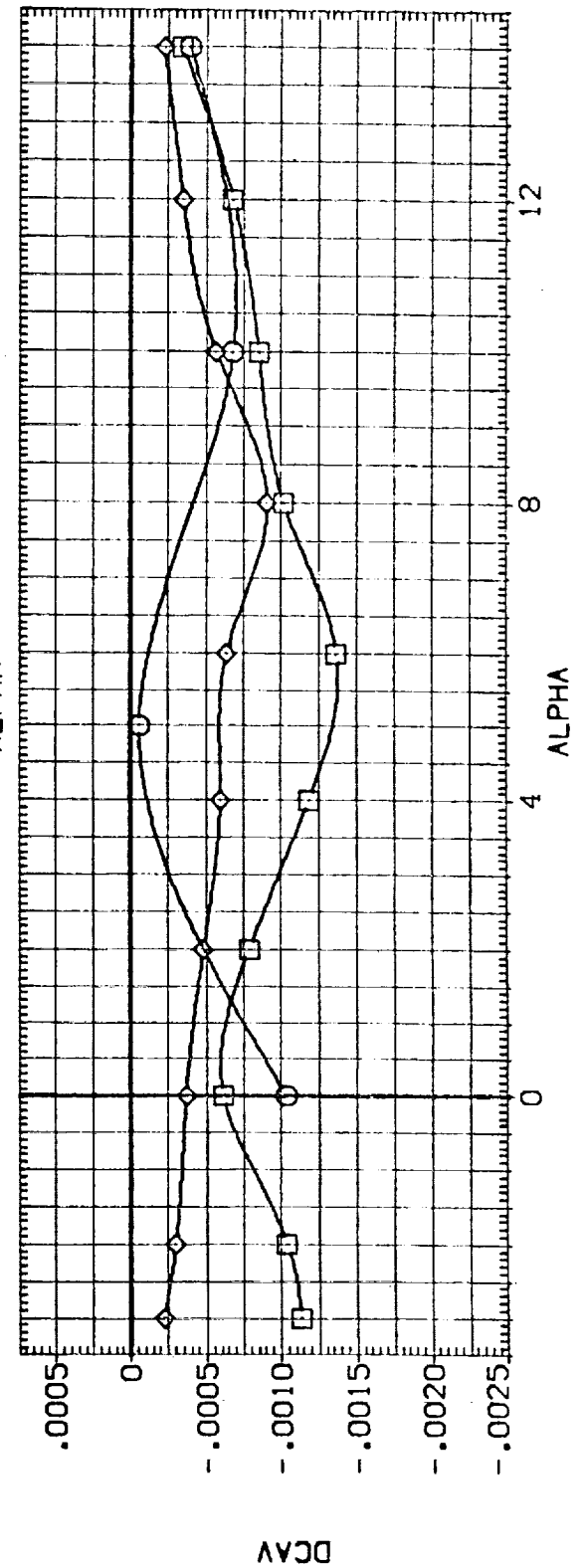
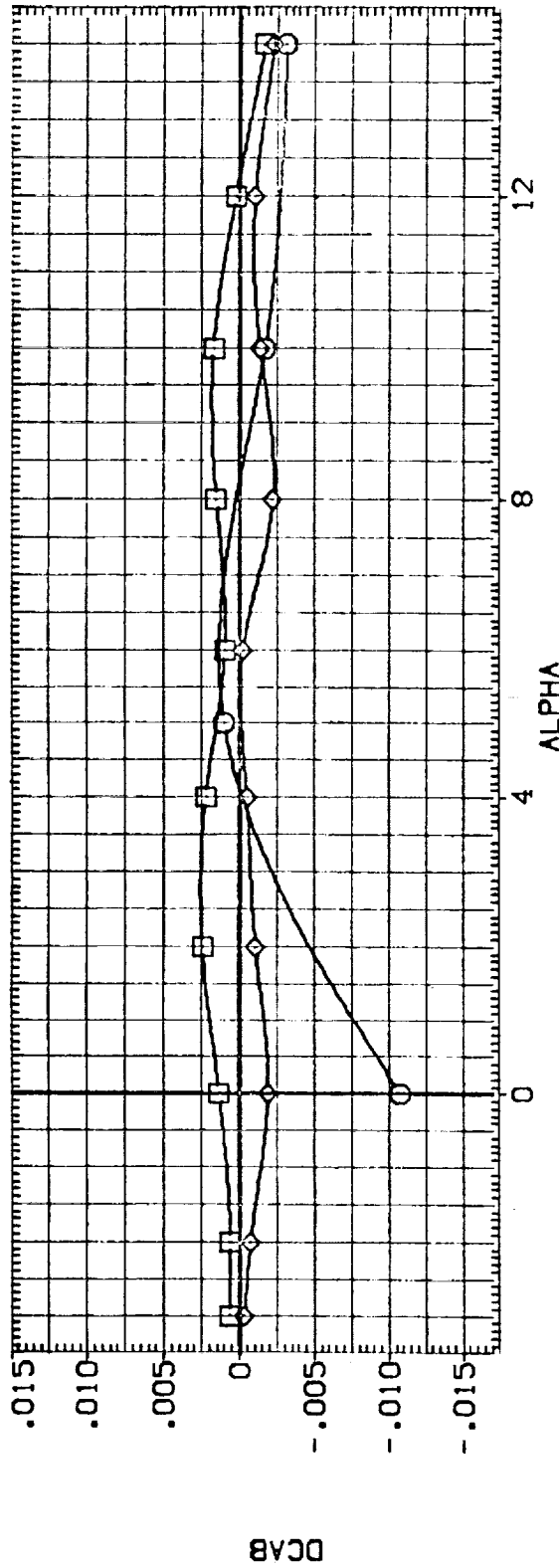


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

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BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

EF	.6053	SO. FT.
EF	.5935	FT.
EF	1.1710	FT.
RP	12.6235	IN.
RP	.0000	IN.
RP	-.3750	IN.
ALE	.0150	

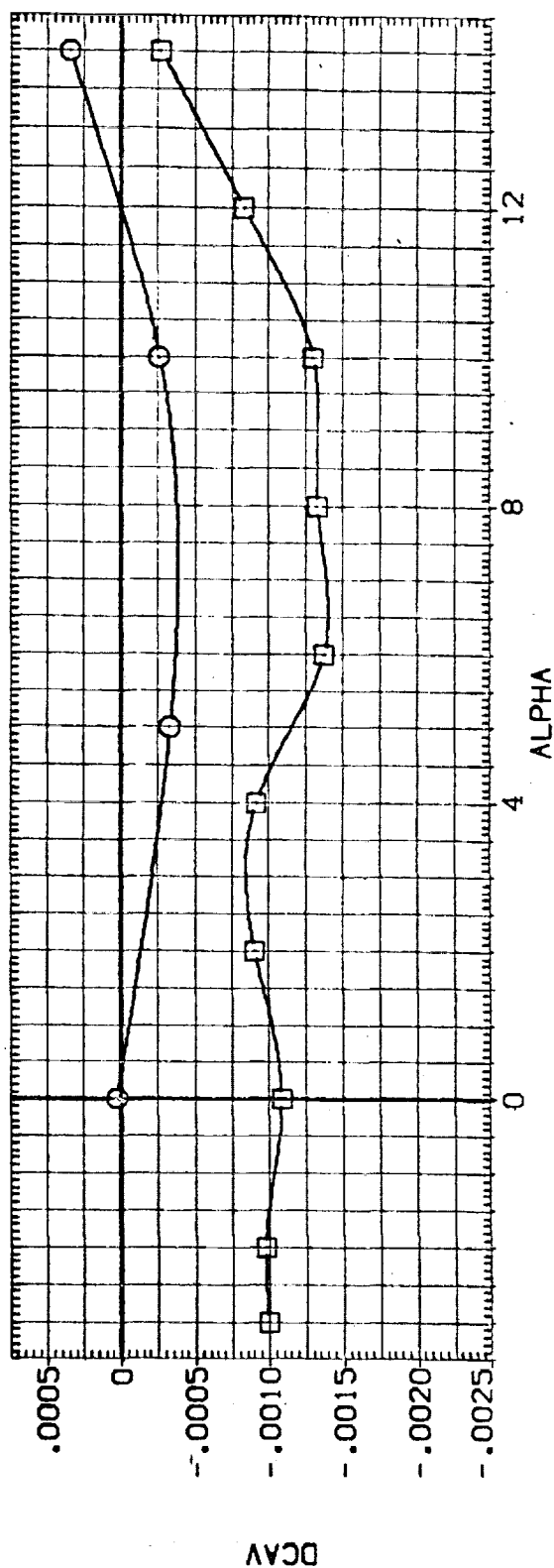
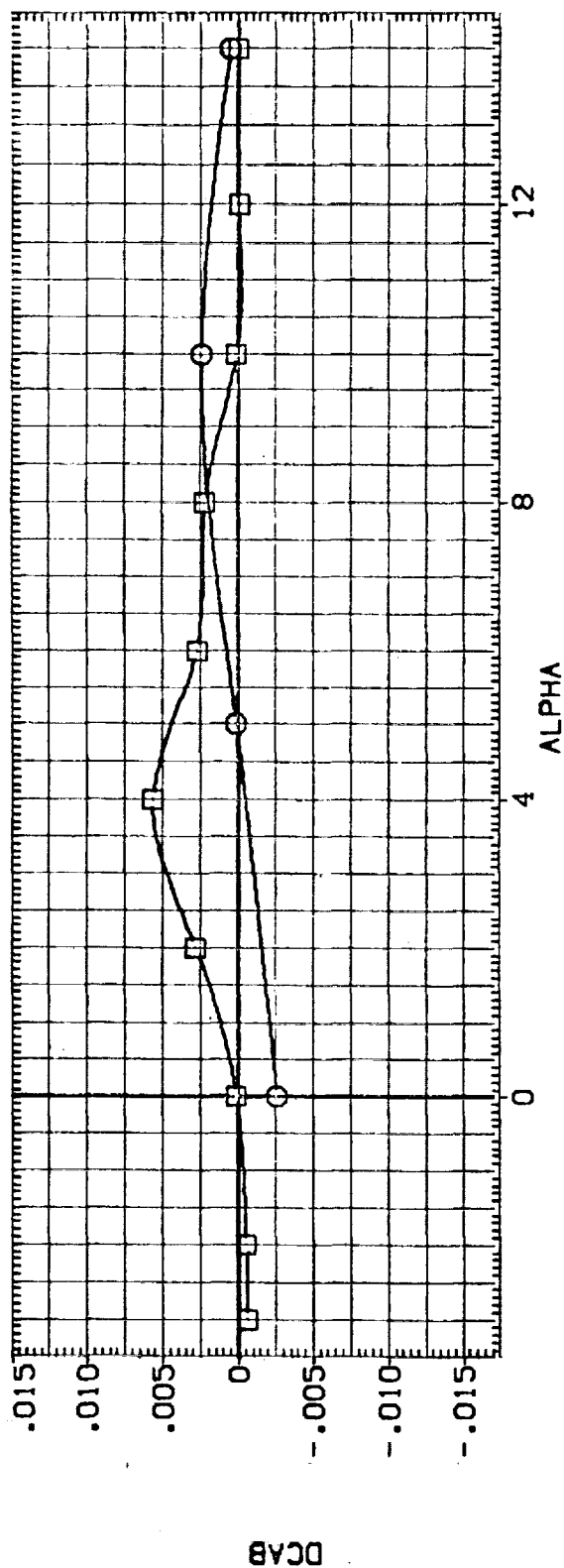


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 OAS9 0A11A-(R5 V8)+STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

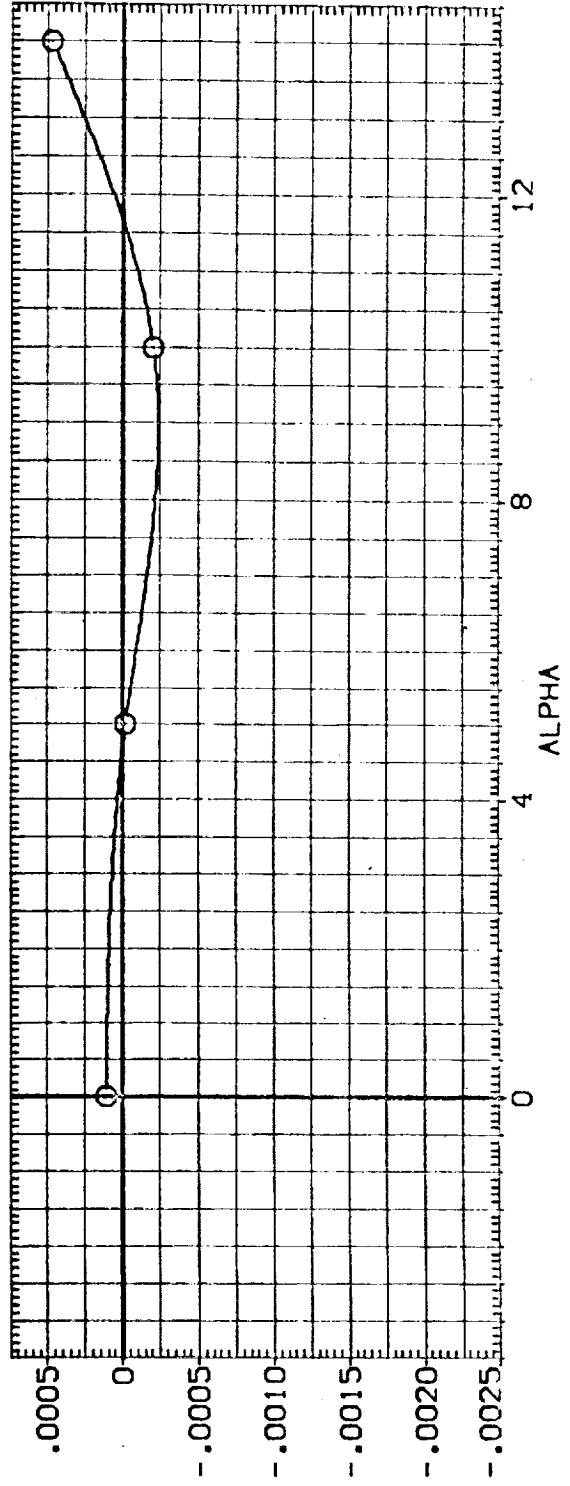
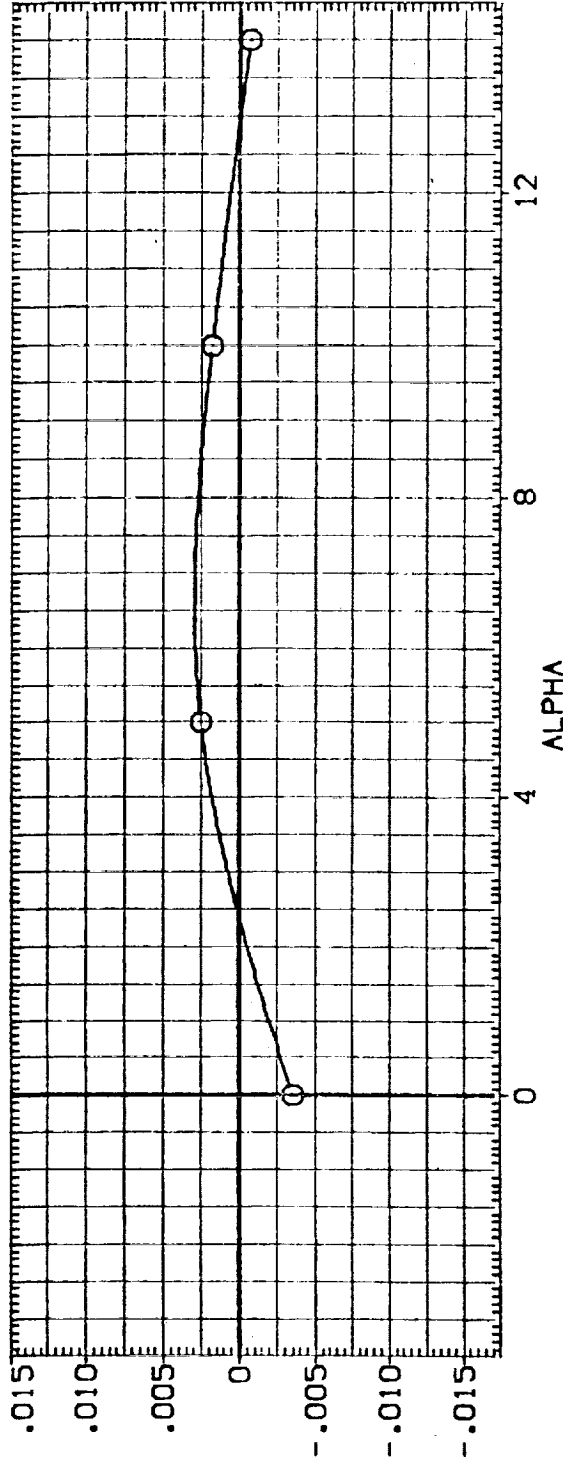


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DASS DA11A-(RS V8)+STRUT  
 (VER014) ARC 66-709 DASS DA11A-(RS V8)+STRUT  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

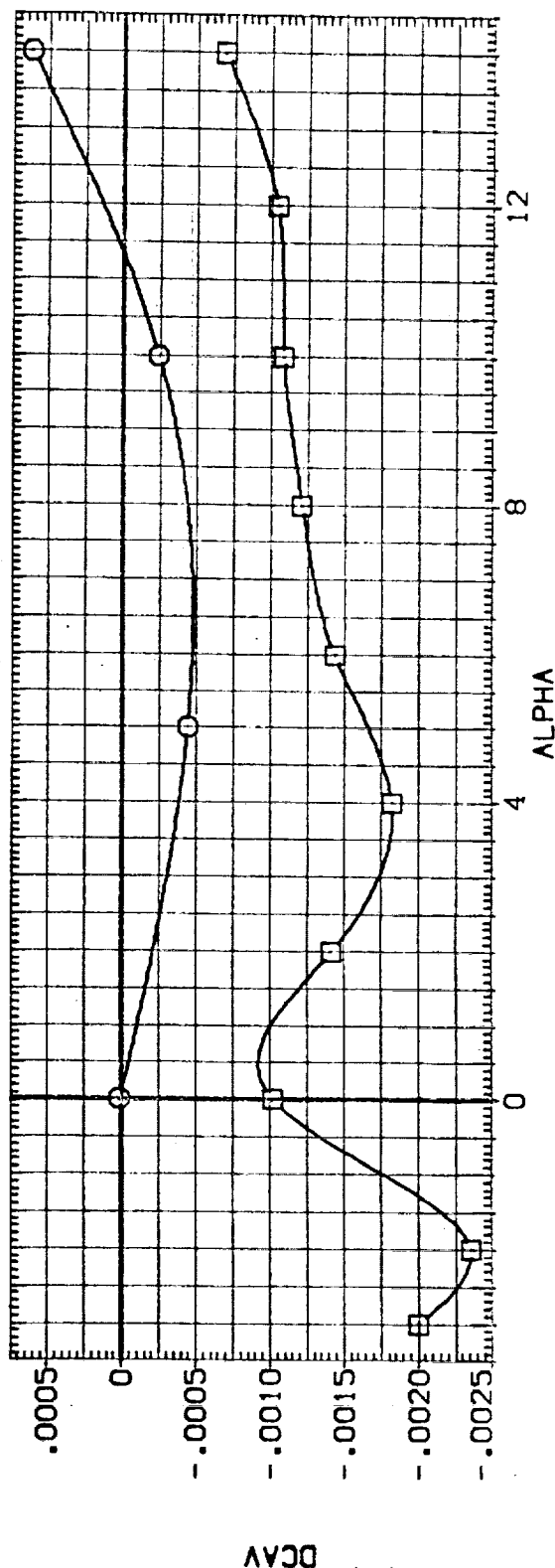
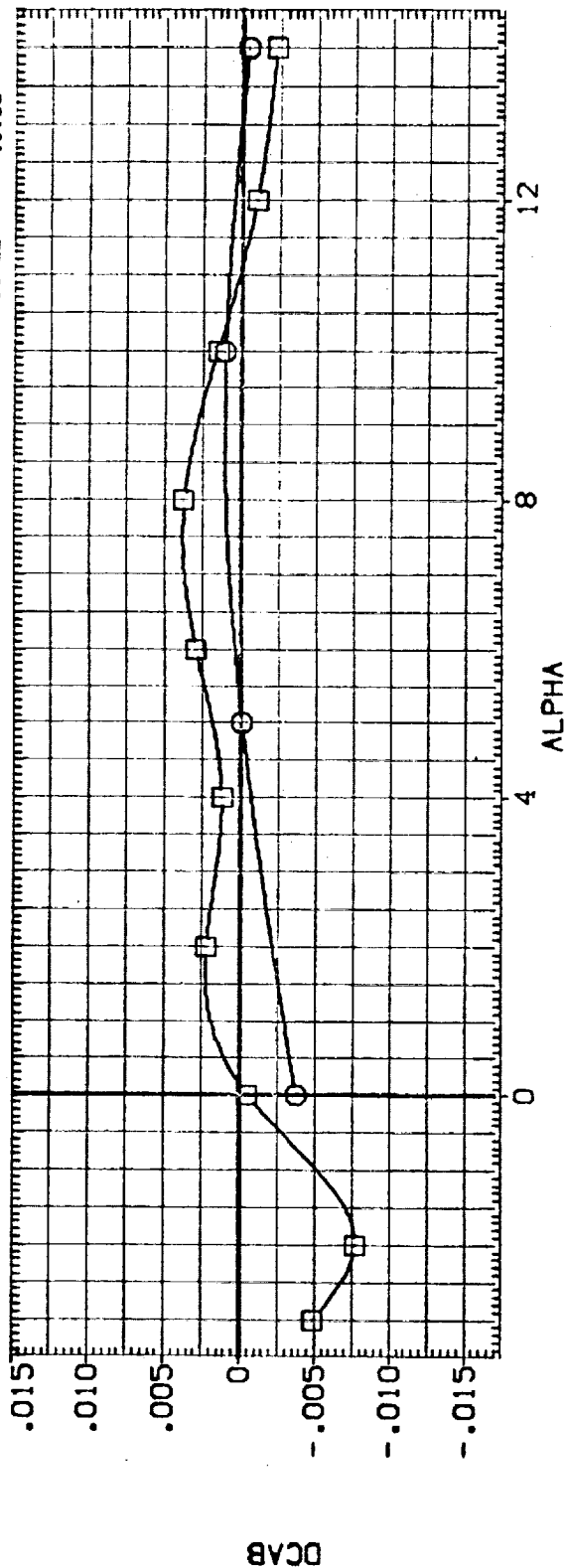


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(D)MACH = .80



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION	
(VER012)	ARC 66-709 DASH DA11A-(RS V8)+STRUT		.000	.000	-11.700	SREF	.6053 50.FT.
(VER014)	DATA NOT AVAILABLE		.000	.000	16.300	LREF	.5935 FT.
(VER015)	DATA NOT AVAILABLE		.000	.000	.000	BREF	1.1710 FT.
						XMRP	12.6255 IN.
						YMRP	.0000 IN.
						ZMRP	-.3750 IN.
						SCALE	.0150

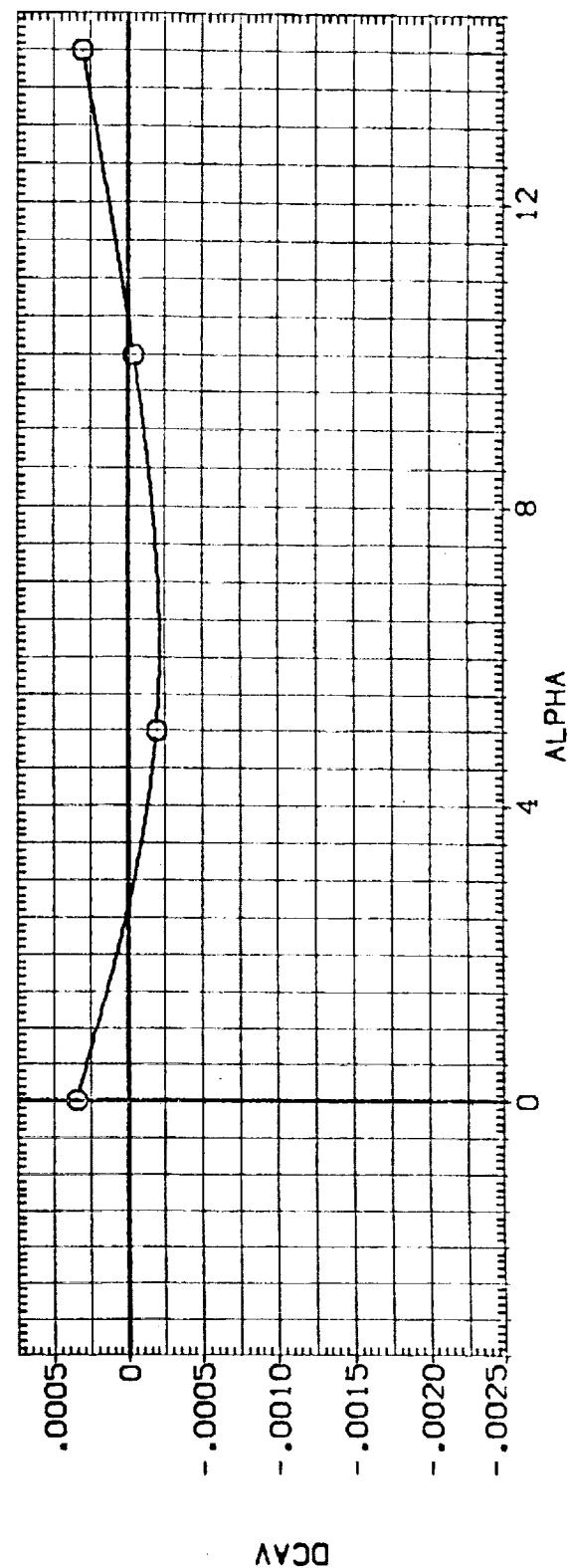
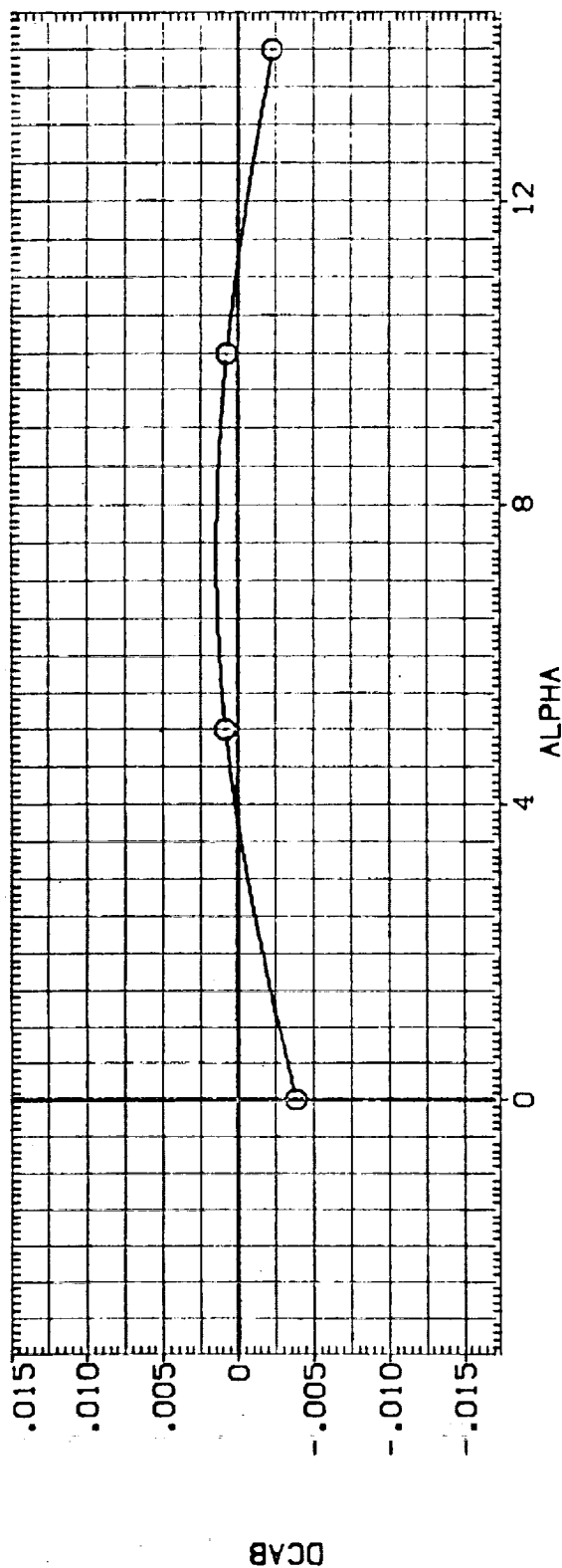


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRF 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

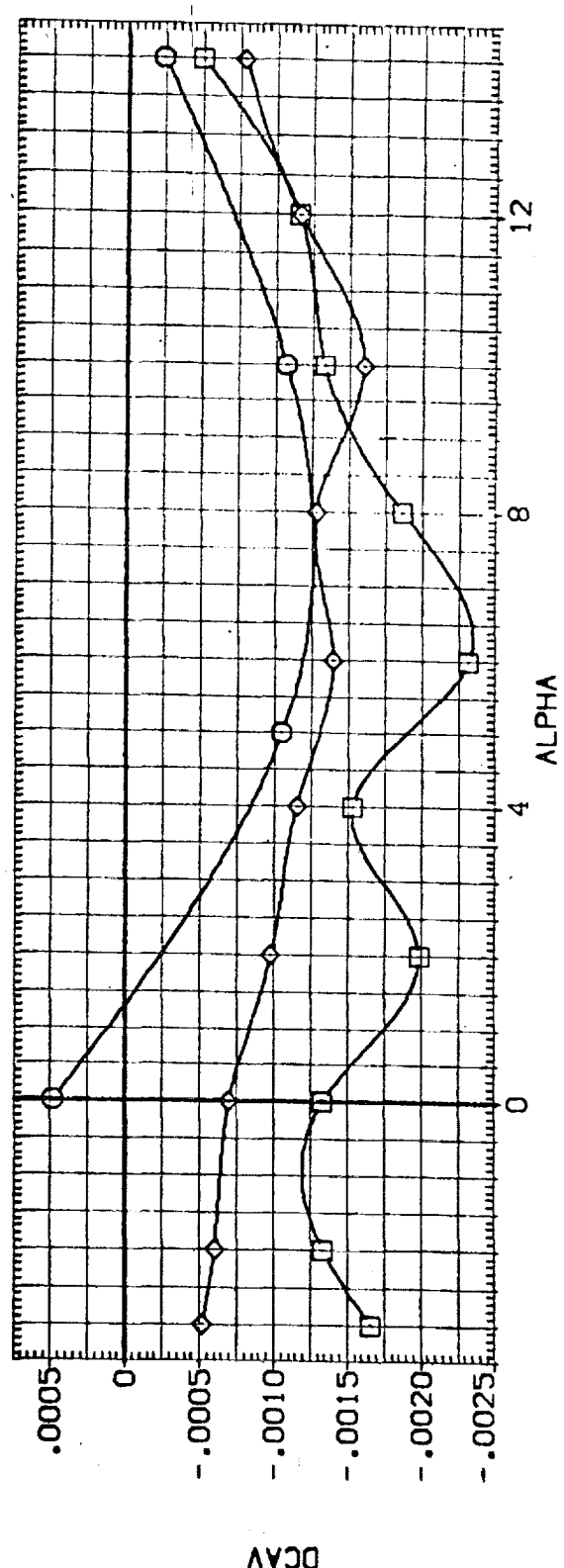
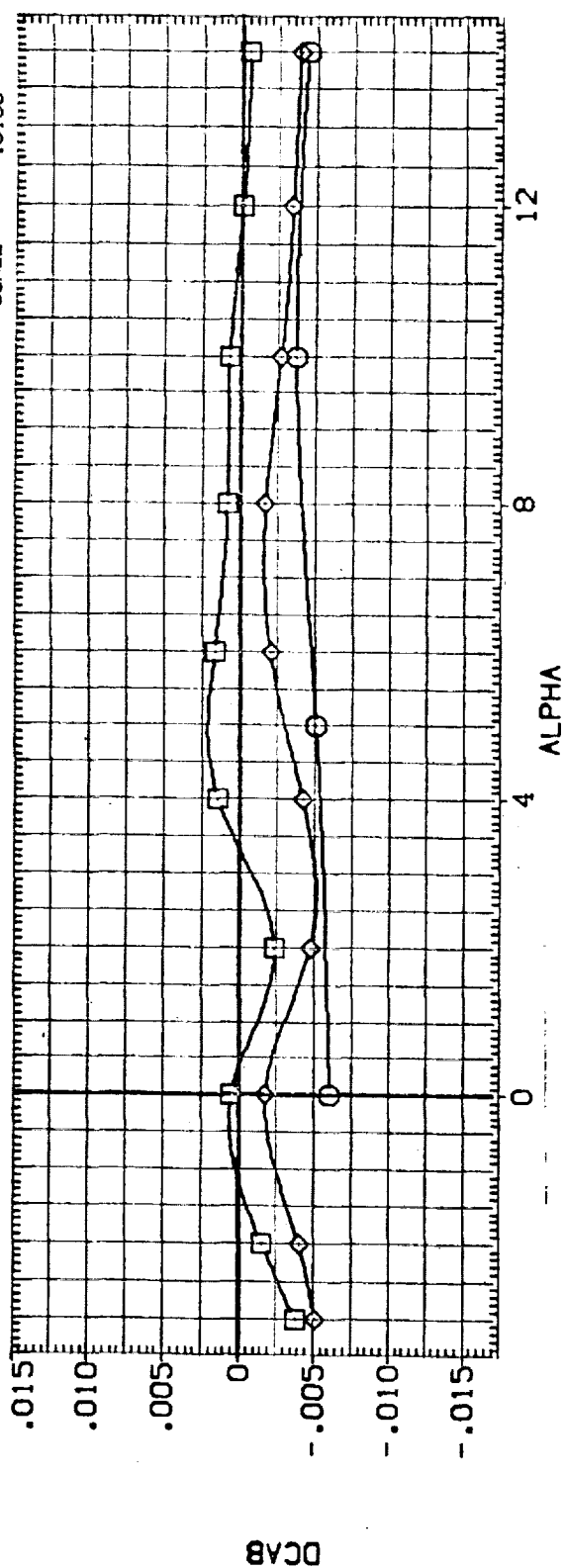


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 DASS DALLA-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

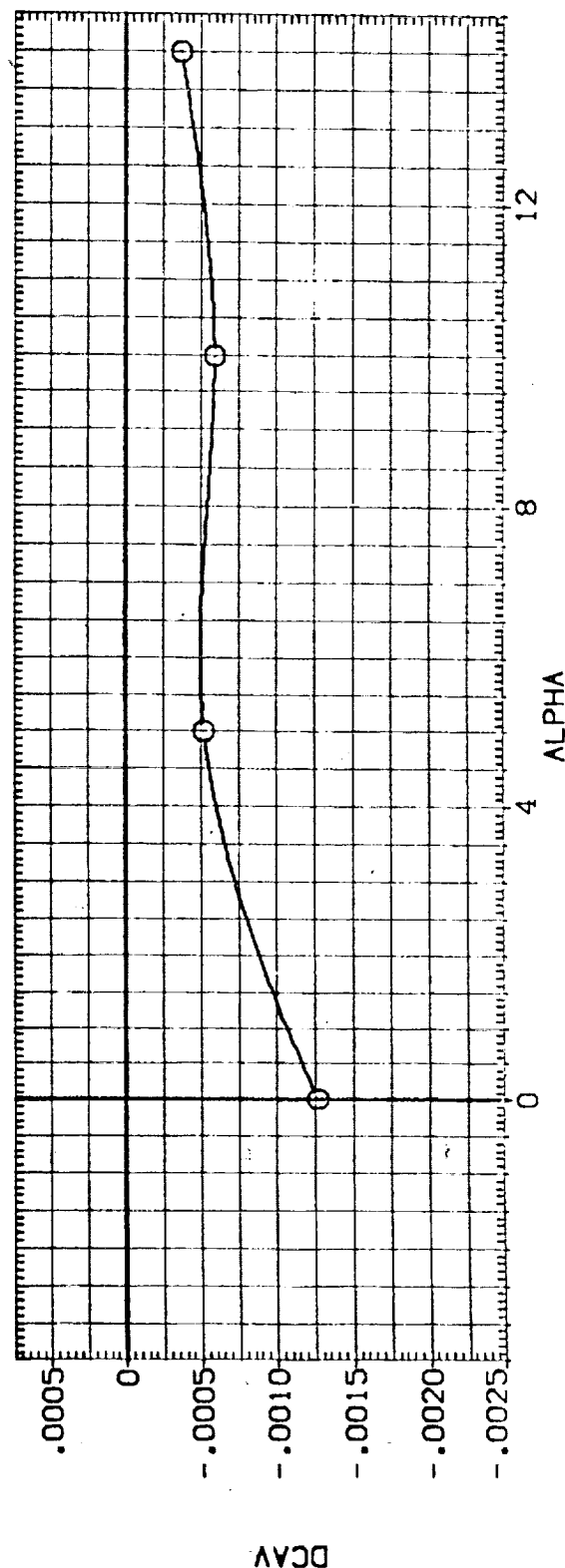
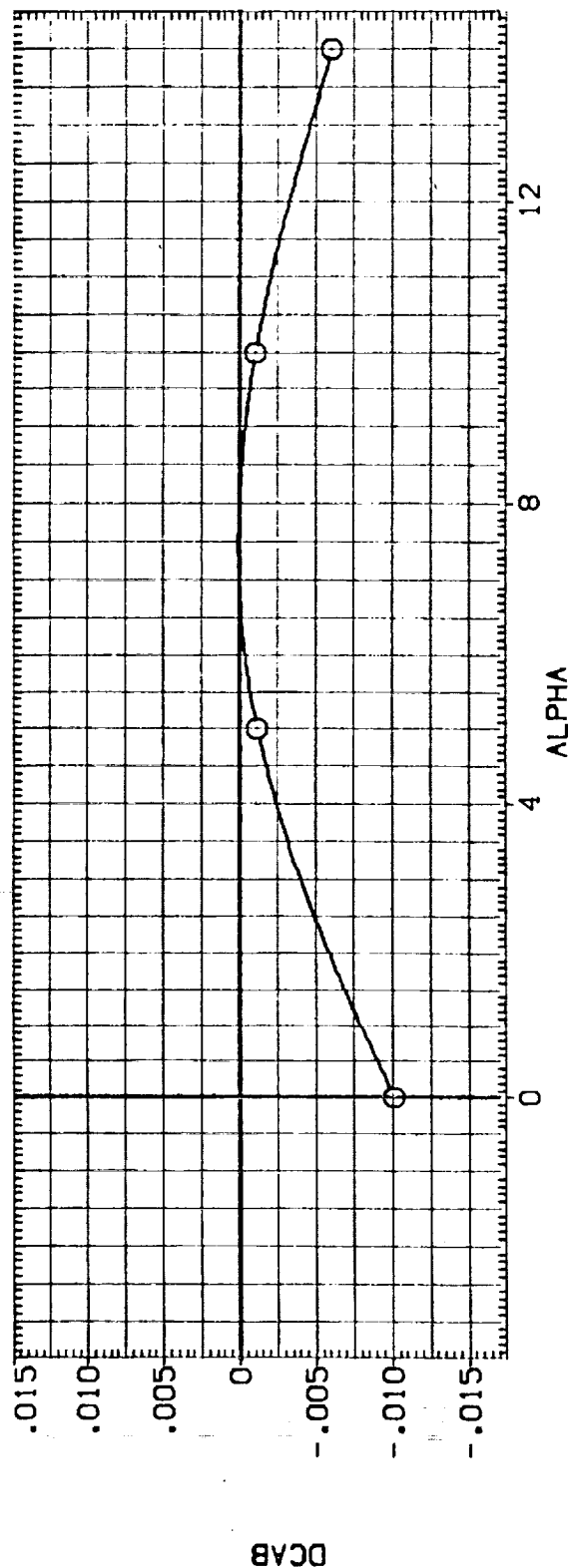


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5925 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3753 IN.
					SCALE .0150

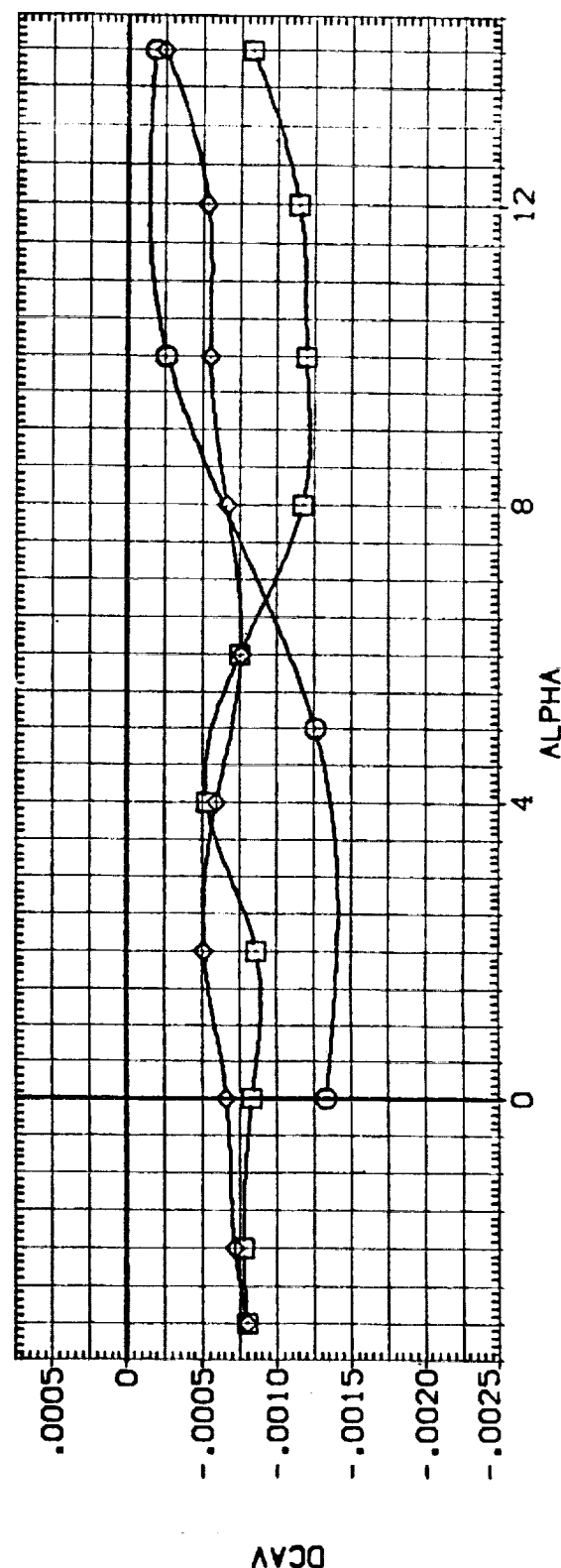
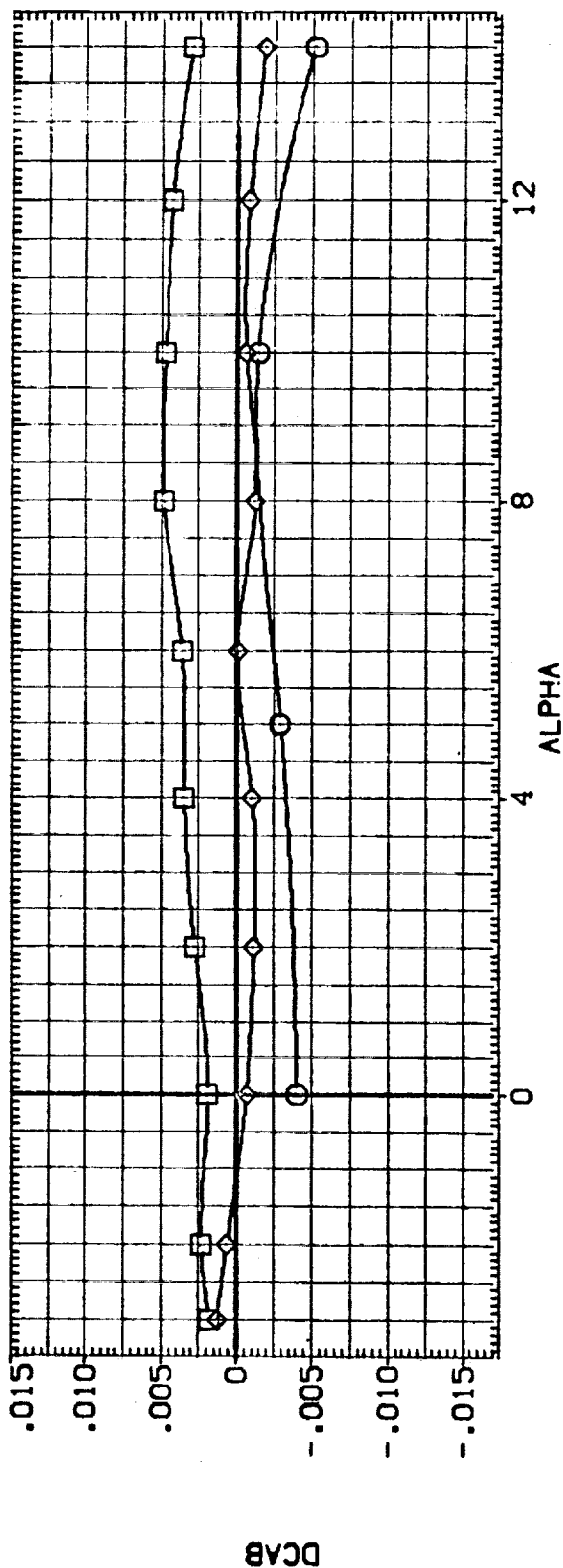


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-708 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF 6053 50.FT.
{VER014}	ARC 66-708 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF 5935 FT.
{VER015}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

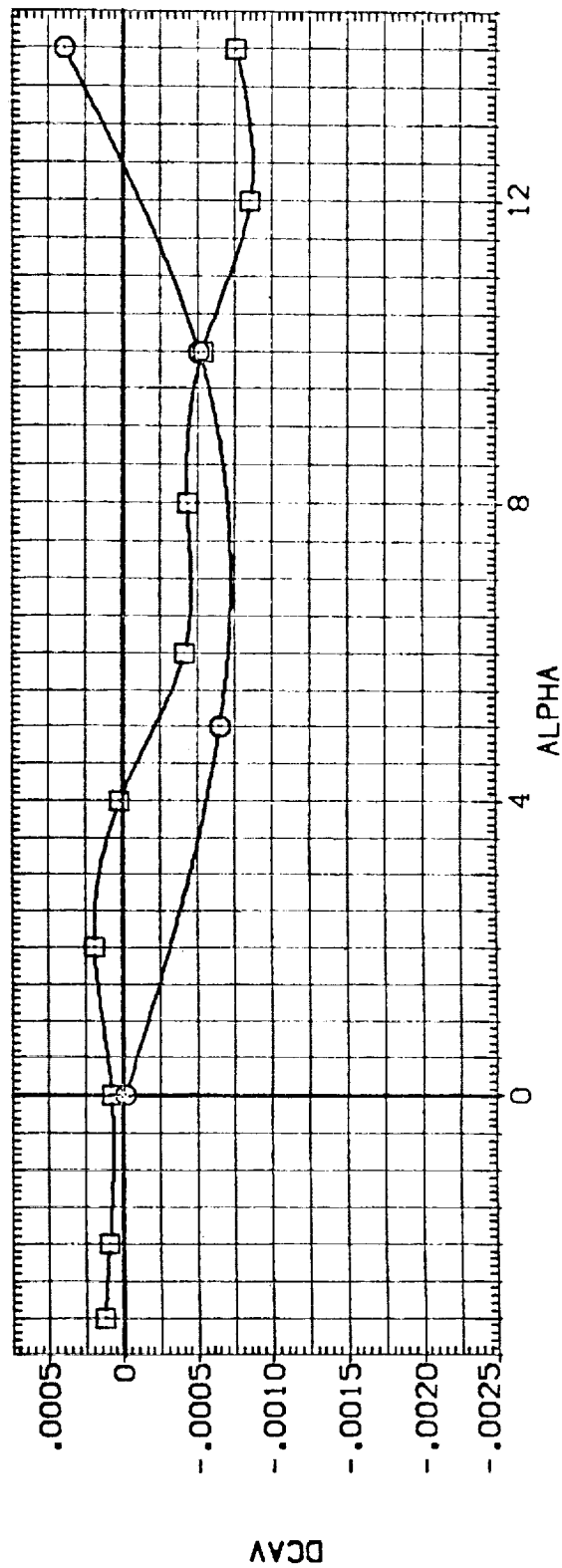
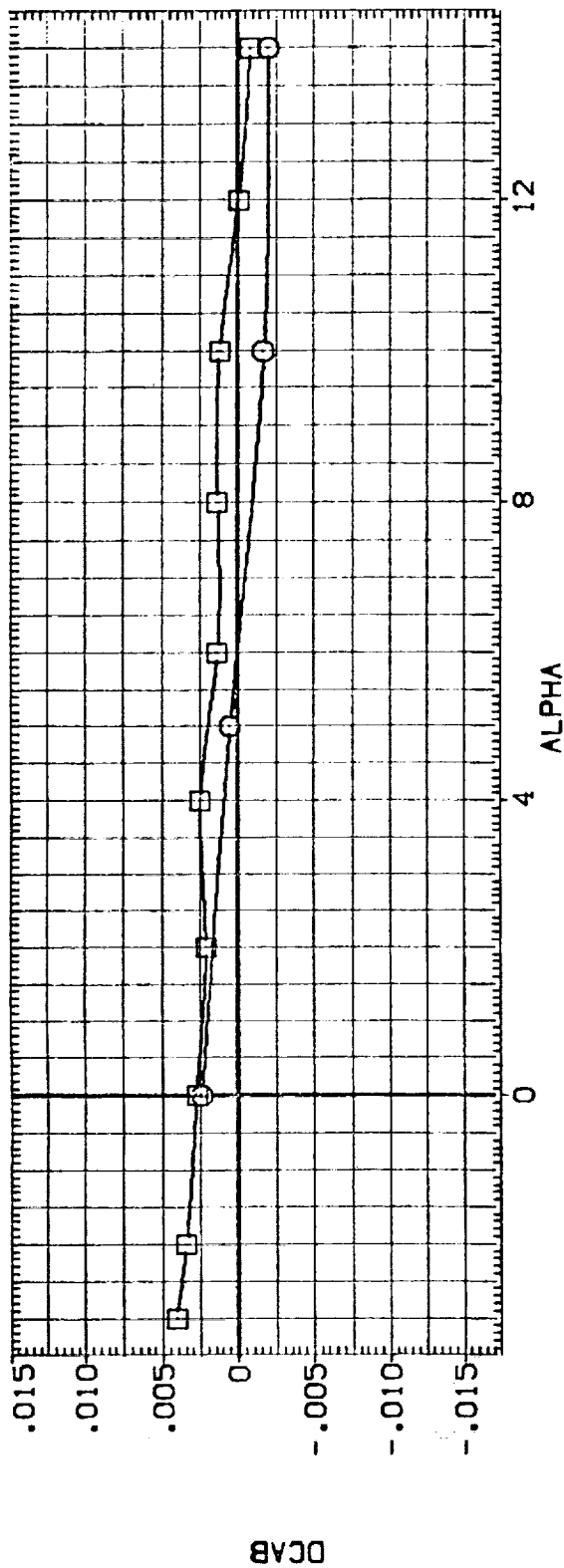


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

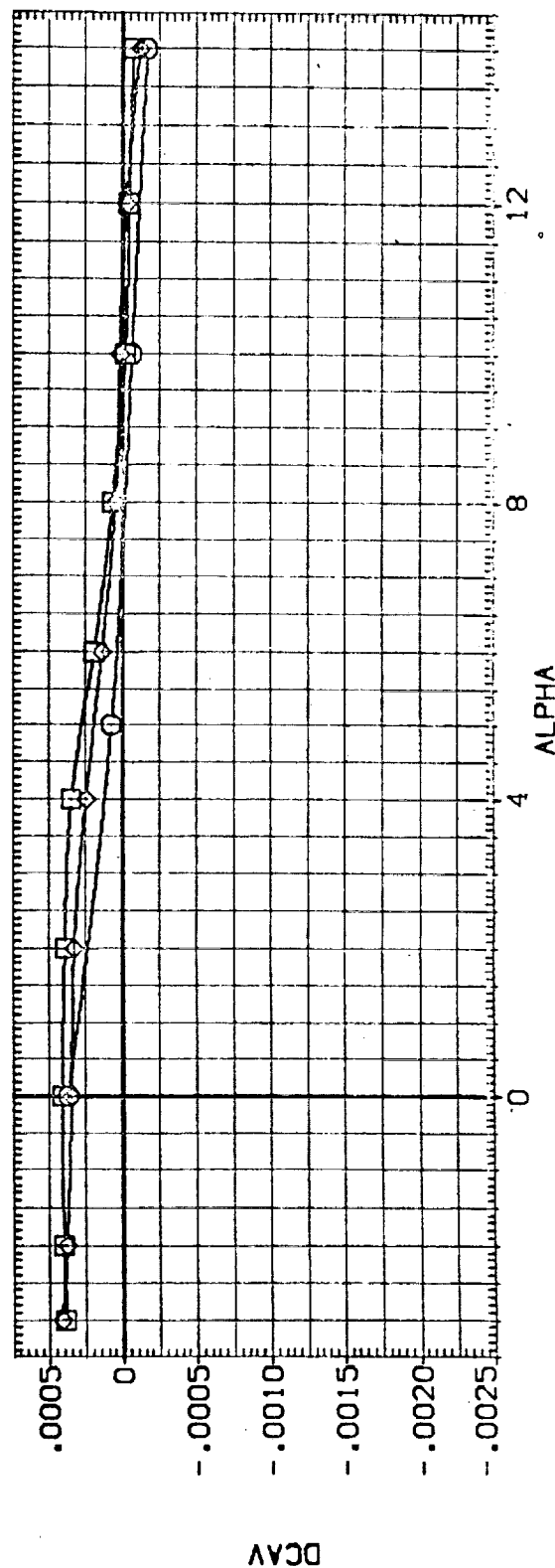
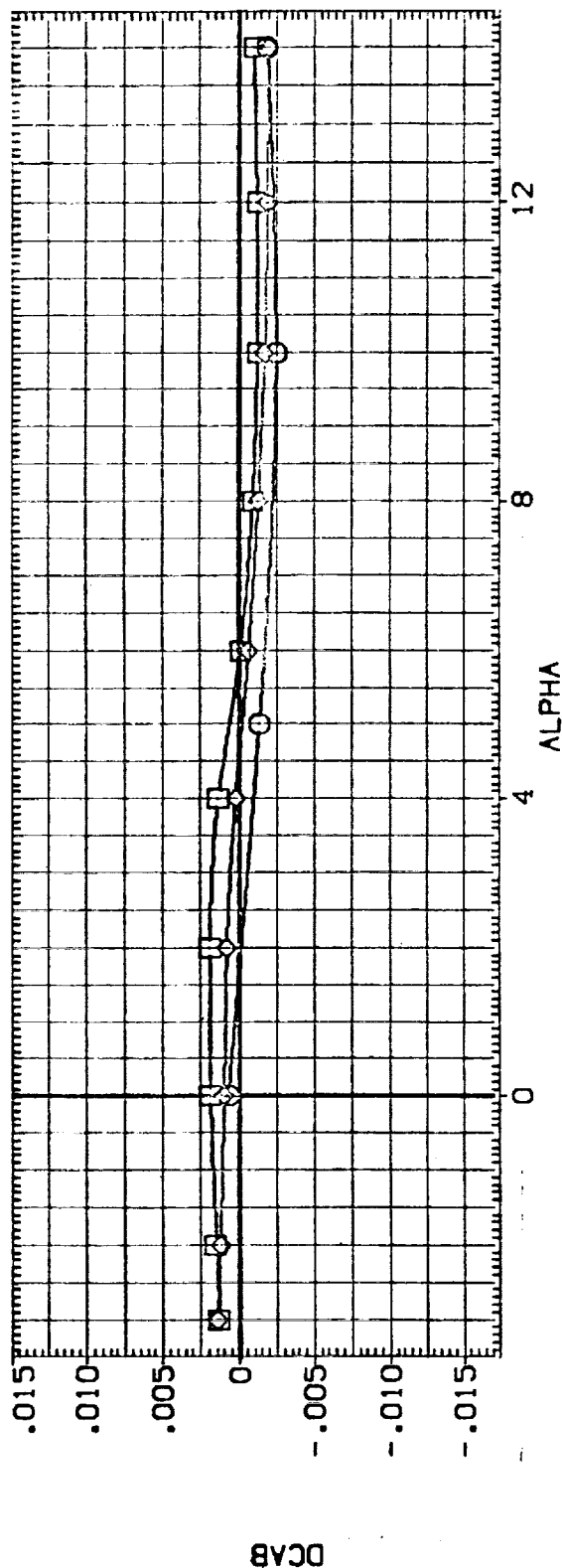


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

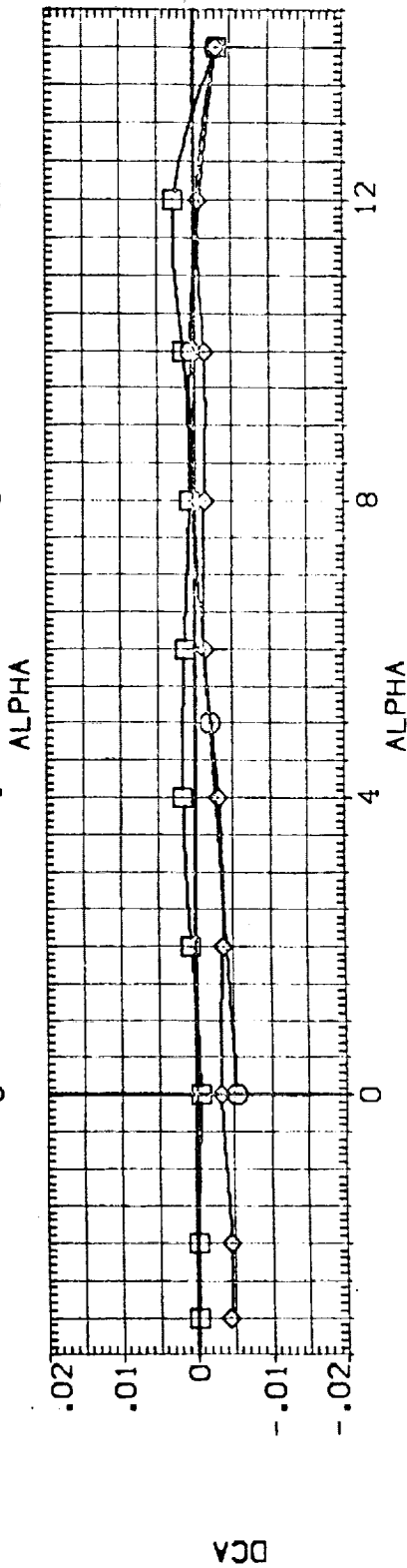
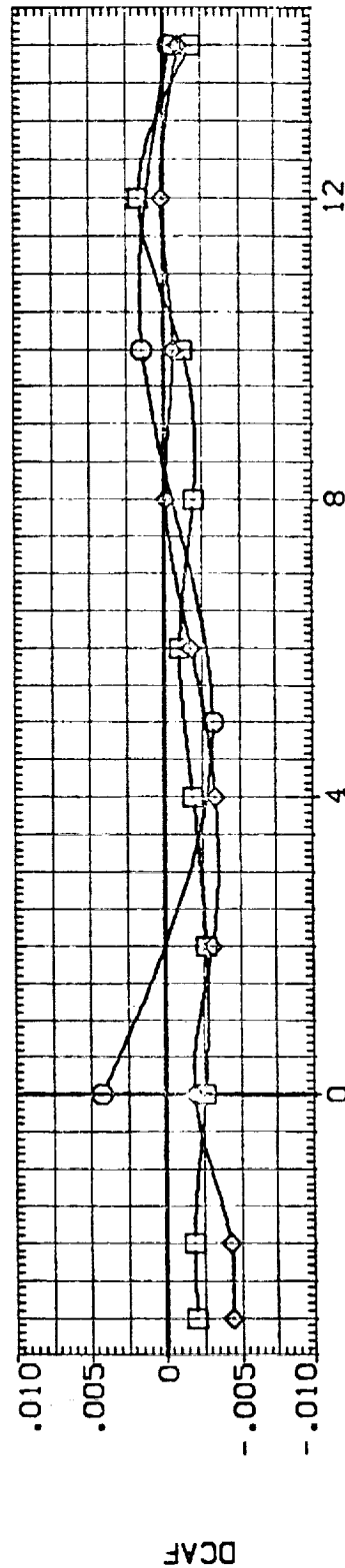
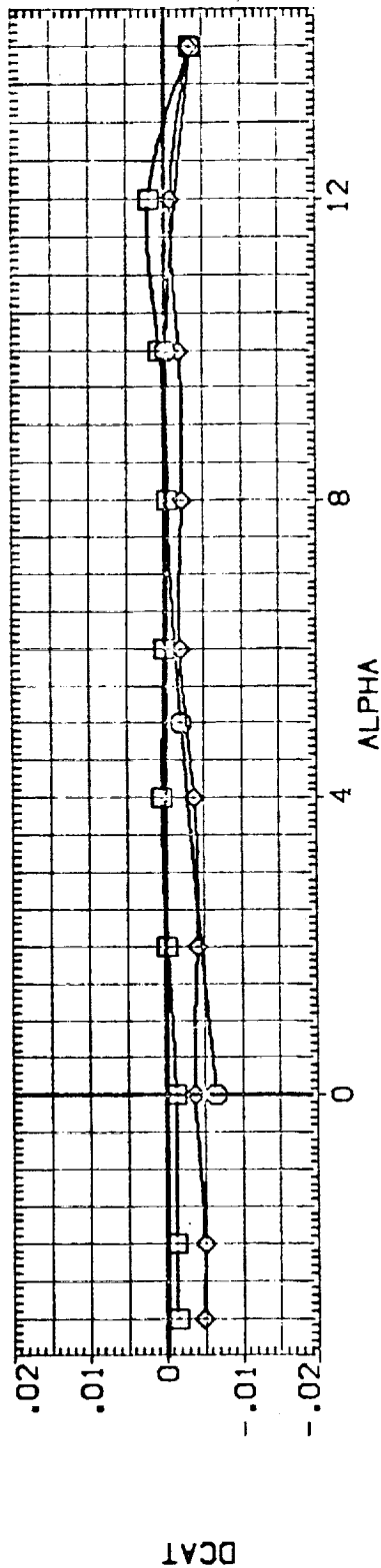


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(VEROI2)	ARC 66-709 DASS 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50 FT.
(VEROI4)	ARC 66-709 DASS 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VEROI5)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

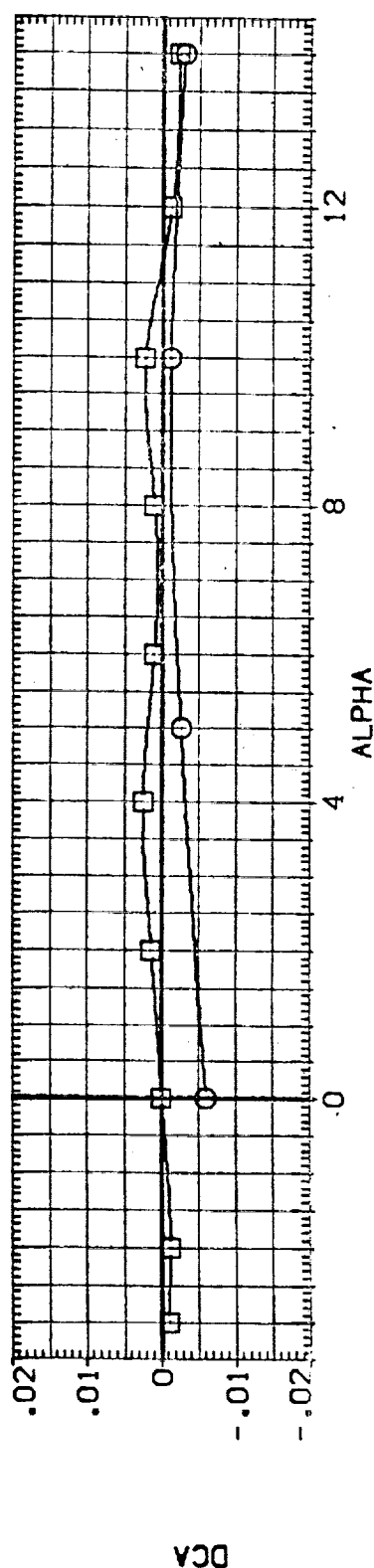
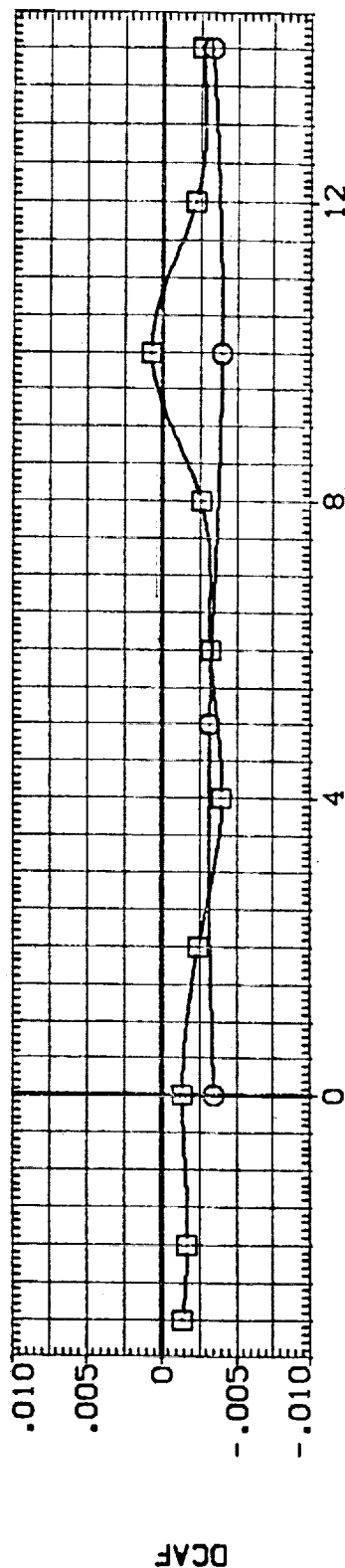
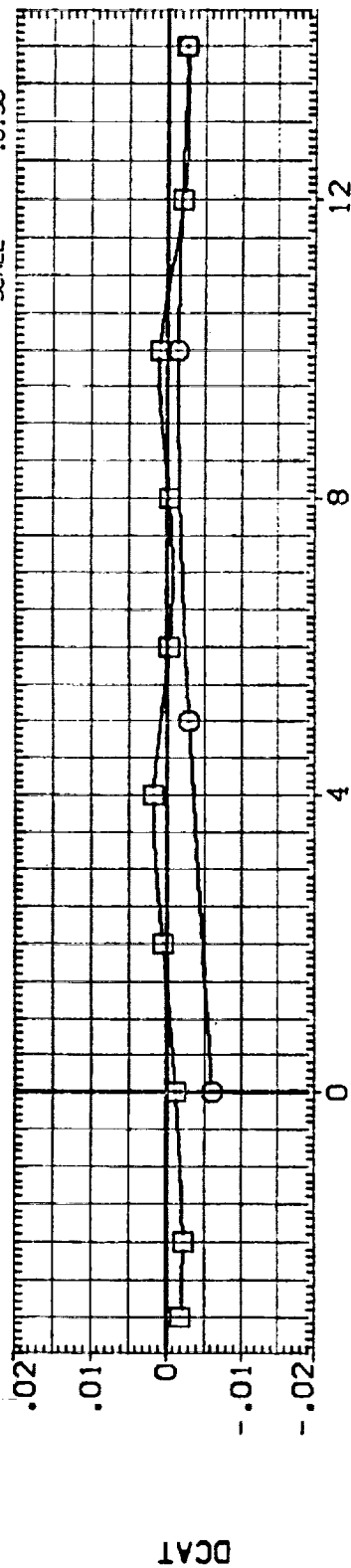



FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70



DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:  
 (VER012) ARC 66-709 QAS9 QAL1A-(R5 V81)\*STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA: .000  
 ELEVON: .000  
 BOFLAP: -11.700  
 .000  
 .000  
 .000  
 .000

REFERENCE INFORMATION:  
 SREF: .6053 SQ.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 FT.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

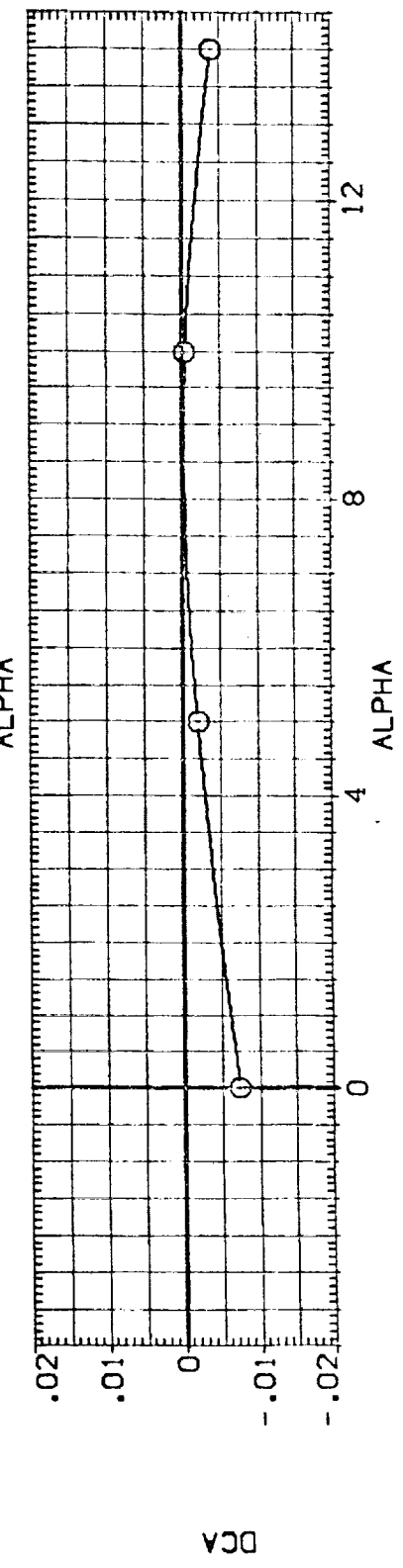
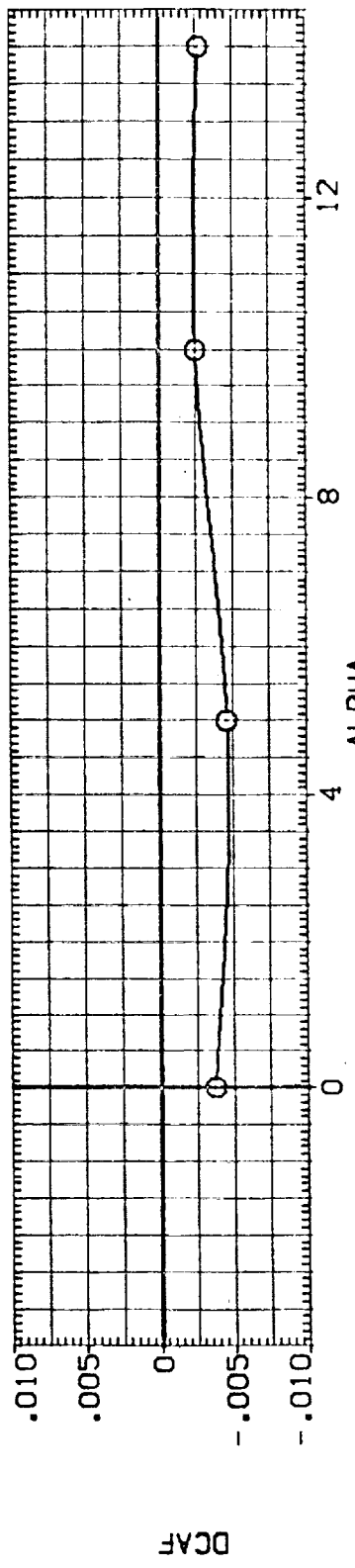
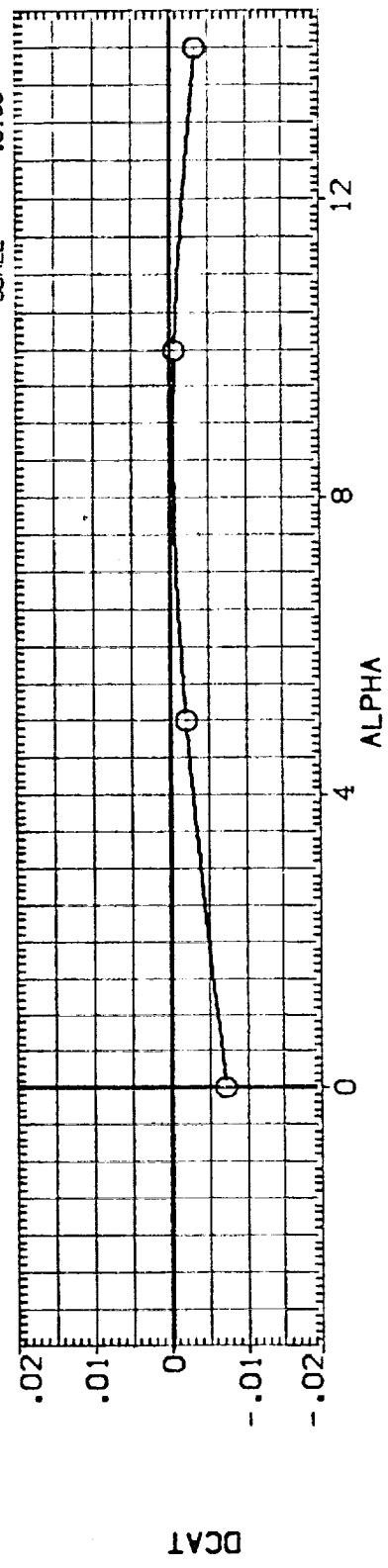


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 OAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 OAS9 CA11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP -.3750 IN.
					SCALE .0150

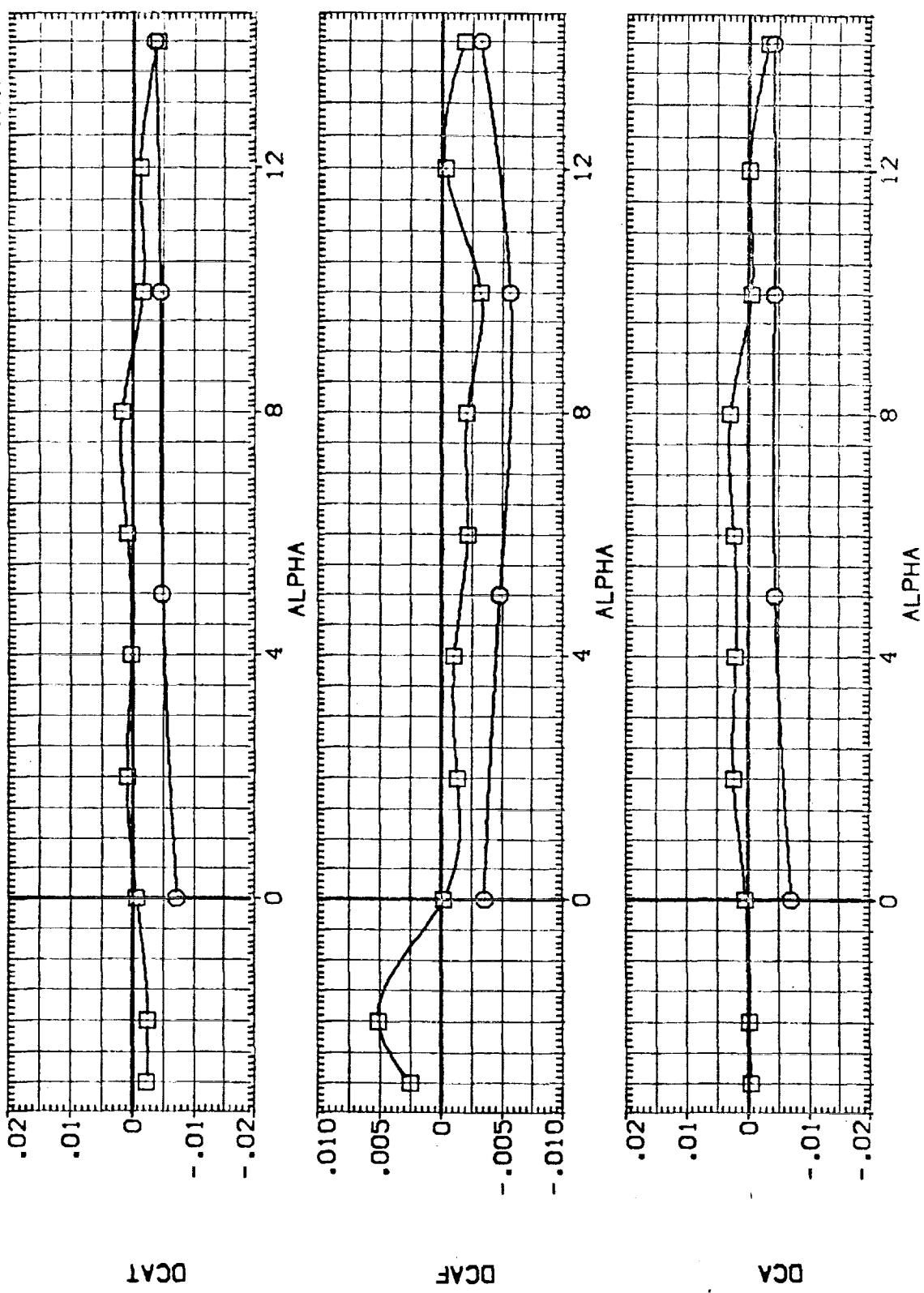


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 0A59 0A11A-(R5 V81)-STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

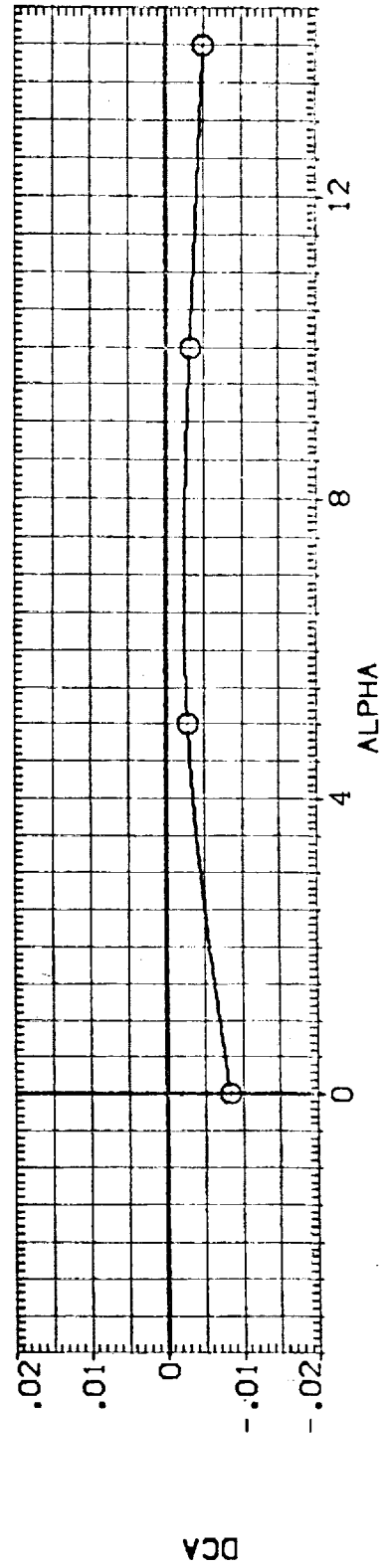
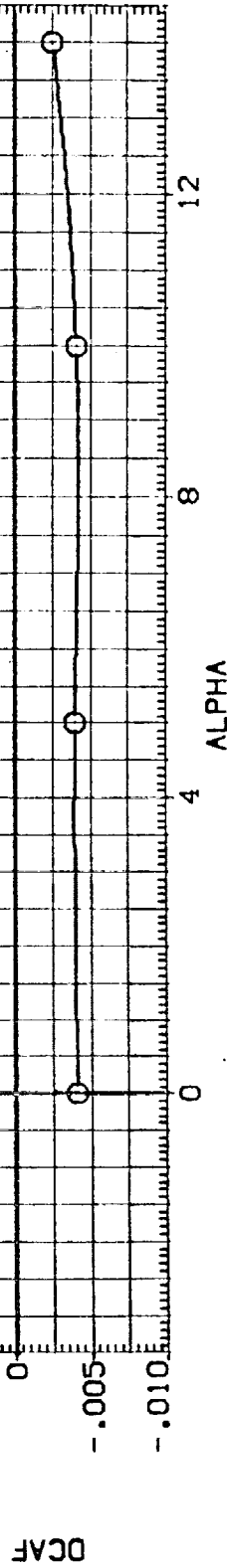
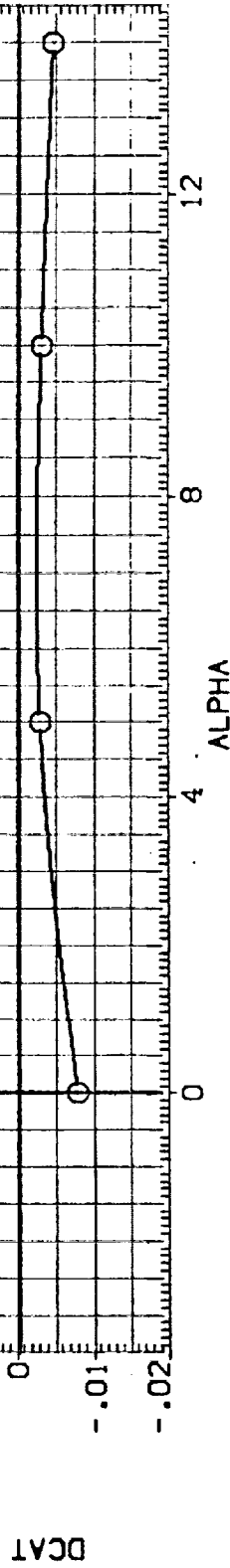


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 DASS9 DAI1A-(RS V81)+STRUT  
 (VER014) ARC 66-709 DASS9 DAI1A-(RS V81)+STRUT  
 (VER015) ARC 66-709 DASS9 DAI1A-(RS V81)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BRFF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

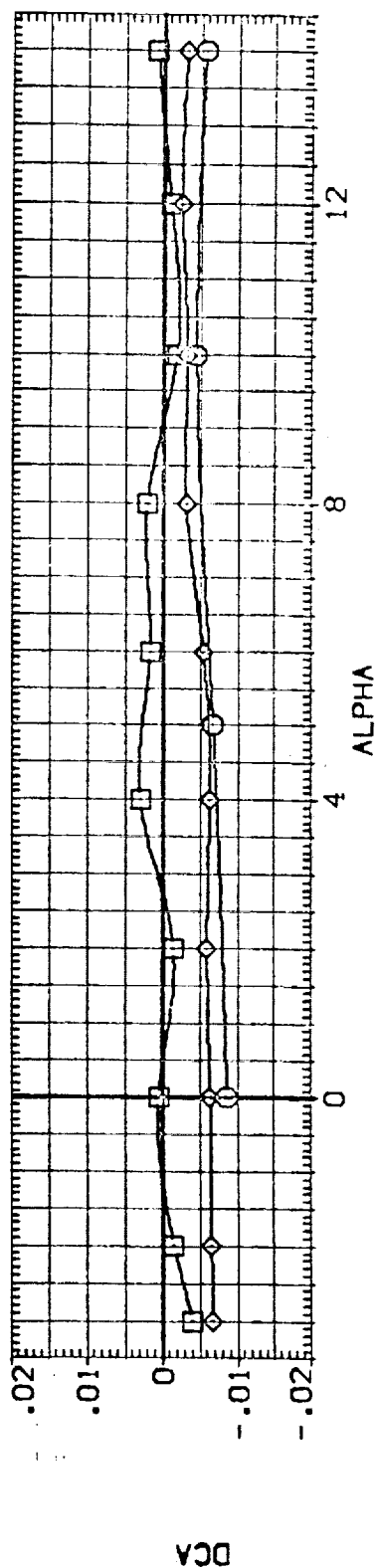
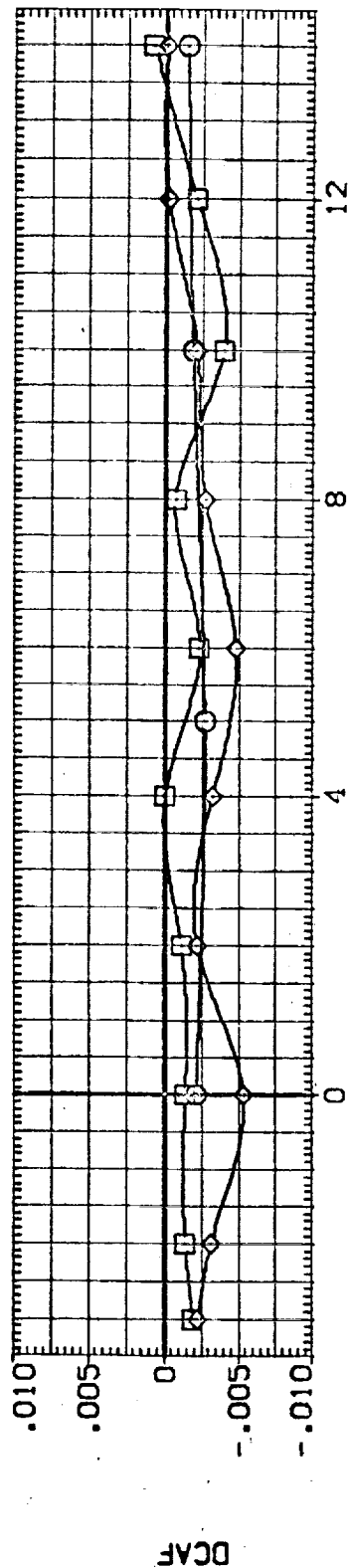
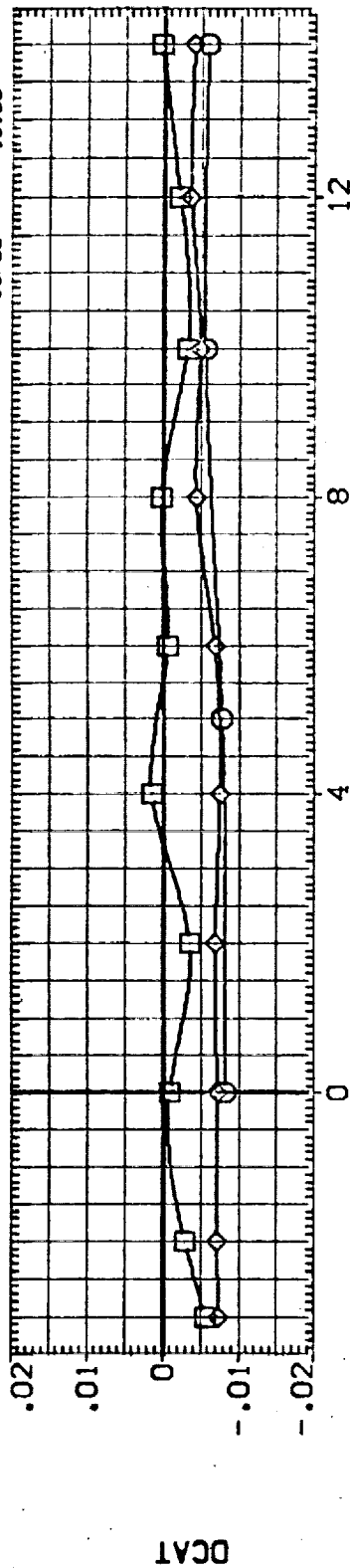


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER012) ARC 66-709 0459 0411A-(RS V8)+STRUT  
 (VER014) DATA NOT AVAILABLE  
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5835 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

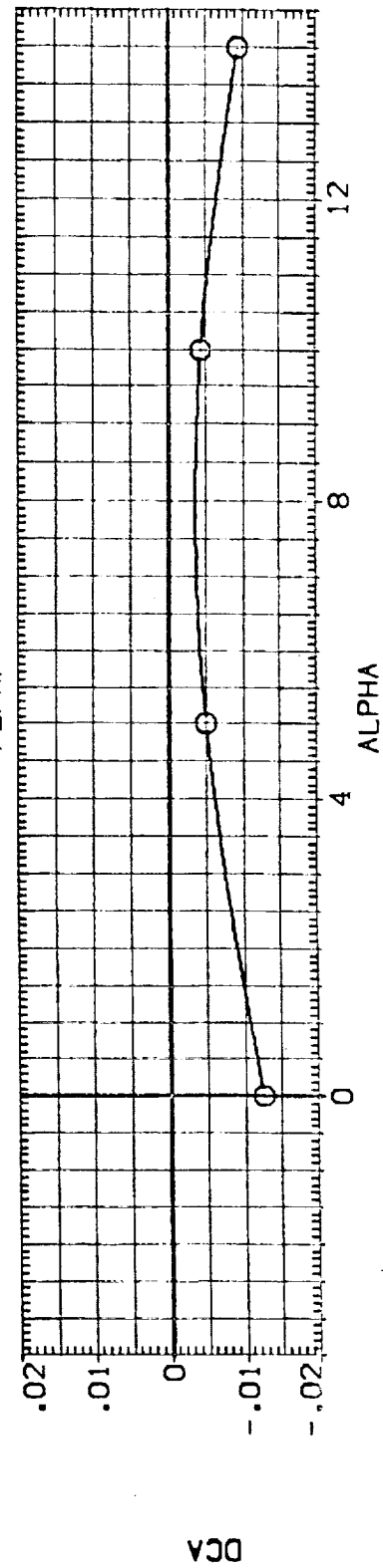
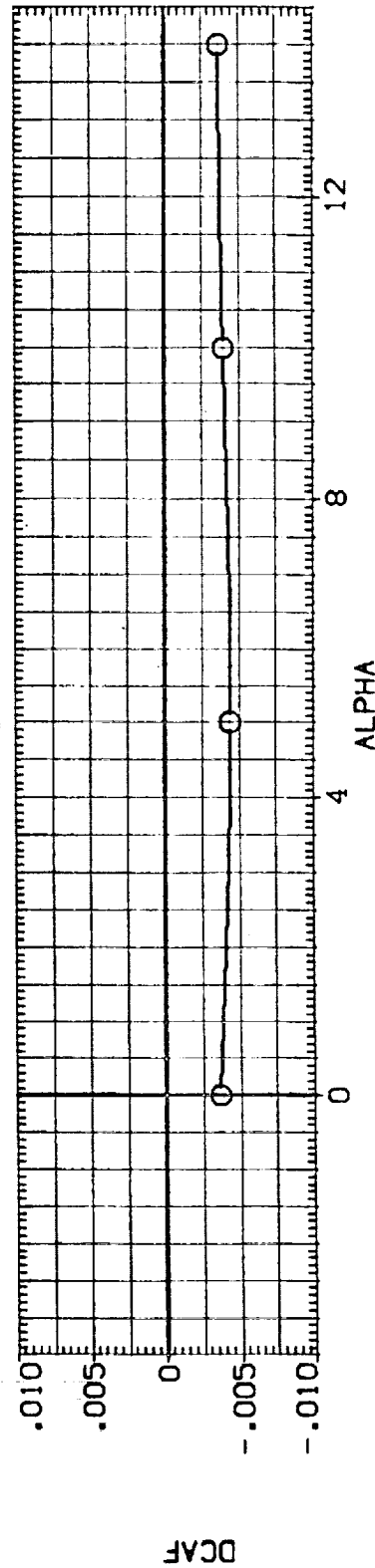
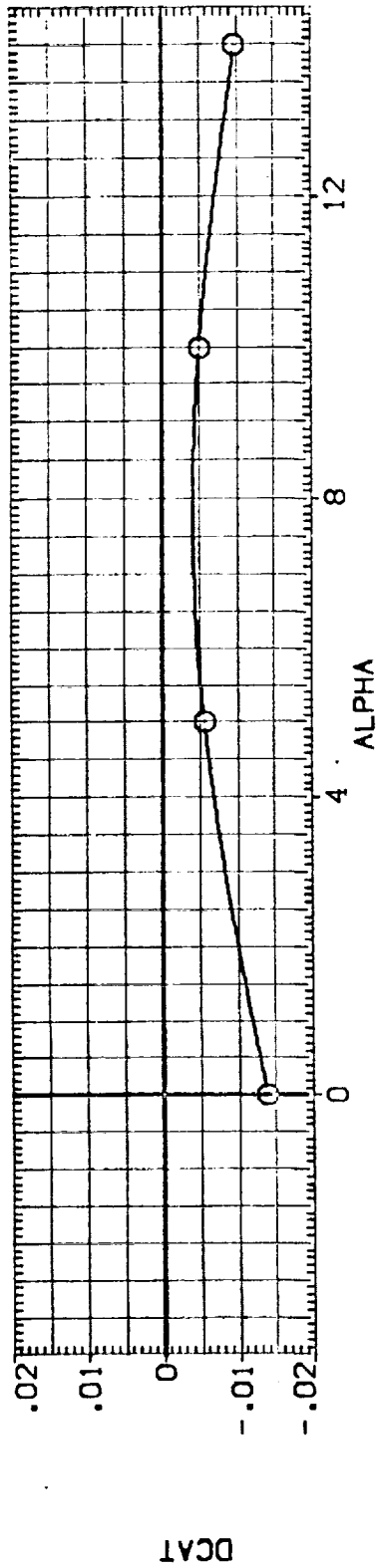


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VERO12) ARC 66-709 QAS9 QALIA-(RS V8)+STRUT  
 (VERO14) ARC 66-709 QAS9 QALIA-(RS V8)+STRUT  
 (VERO15) ARC 66-709 QAS9 QALIA-(RS V8)+STRUT

BETA ELEVON BOELAP  
 .000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

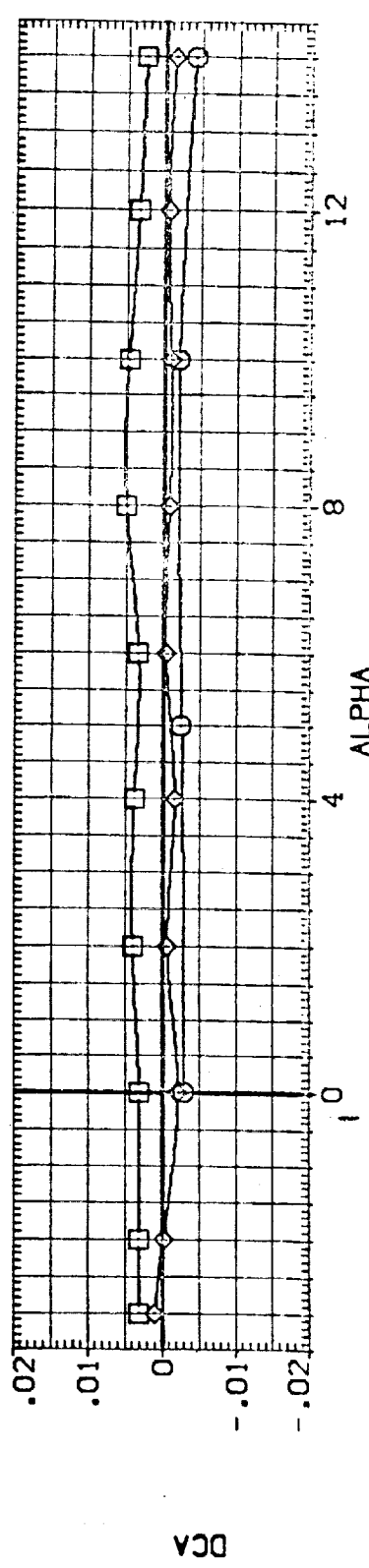
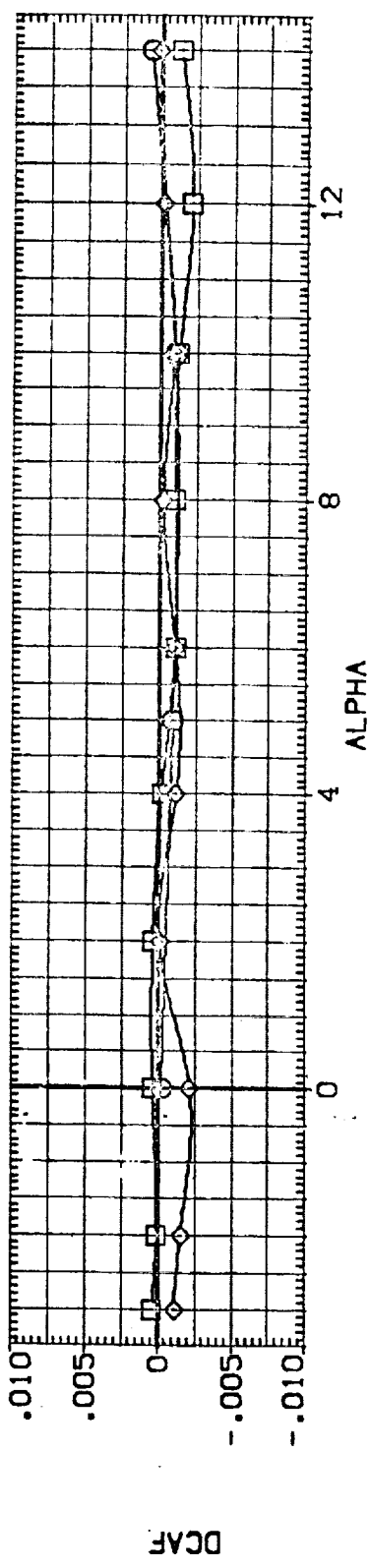
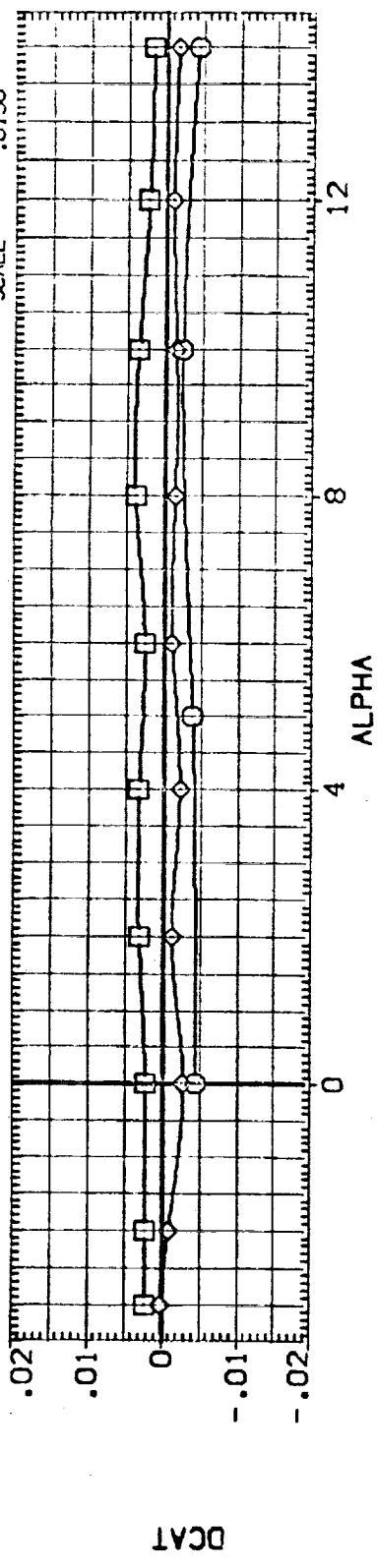


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(H)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VER012) ARC 66-709 OAS9 0A11A-(RS VB1)+STRUT  
 (VER014) ARC 66-709 OAS9 0A11A-(RS VB1)+STRUT  
 (VER015) DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 YMRP 12.6255 IN.  
 ZMRP .0000 IN.  
 SCALE -.3750 IN.  
 .0150

BETA ELEVON BOFLAP

.000 .000 -11.700  
 .000 .000 16.300  
 .000 .000 .000

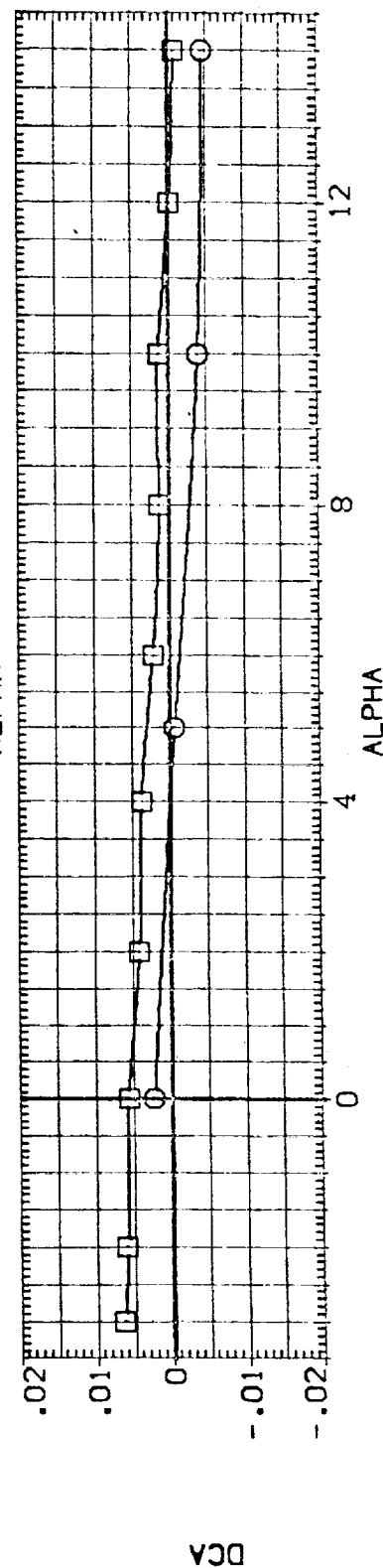
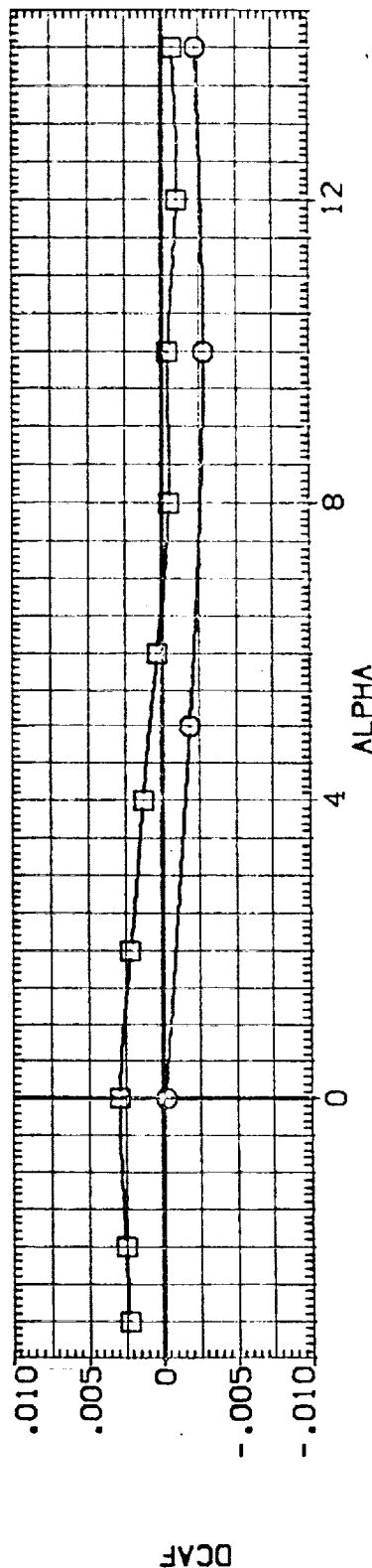
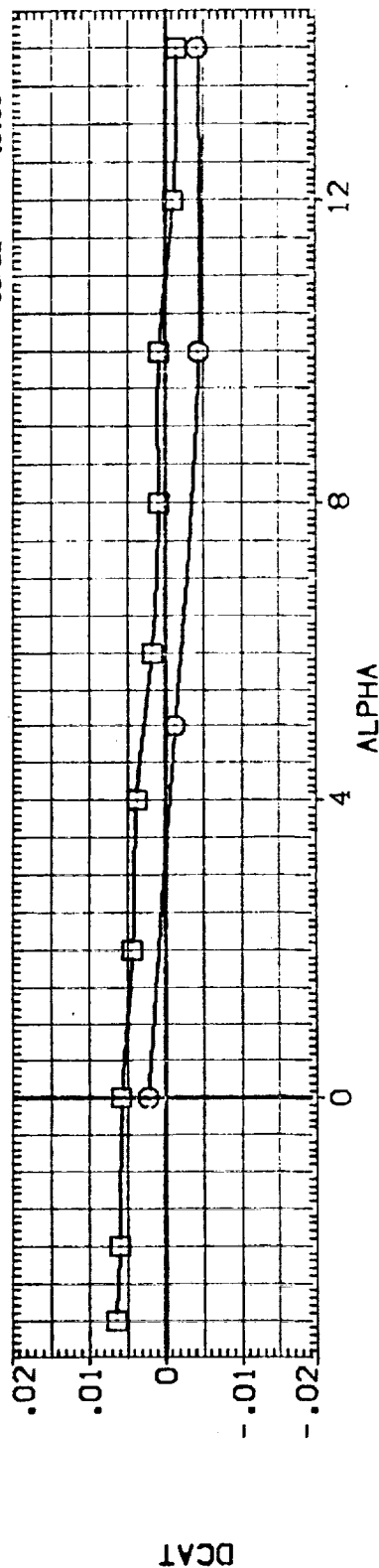


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

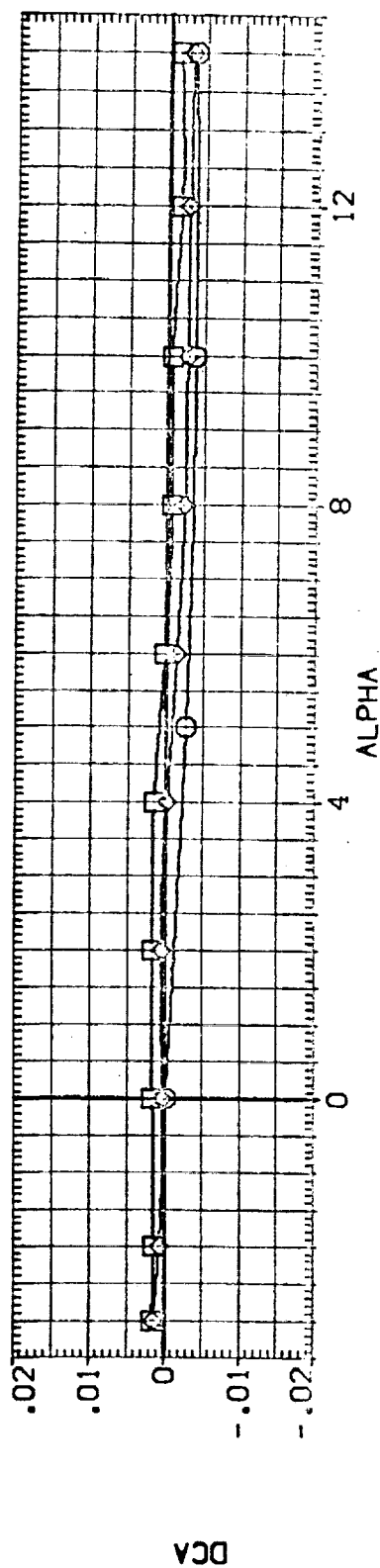
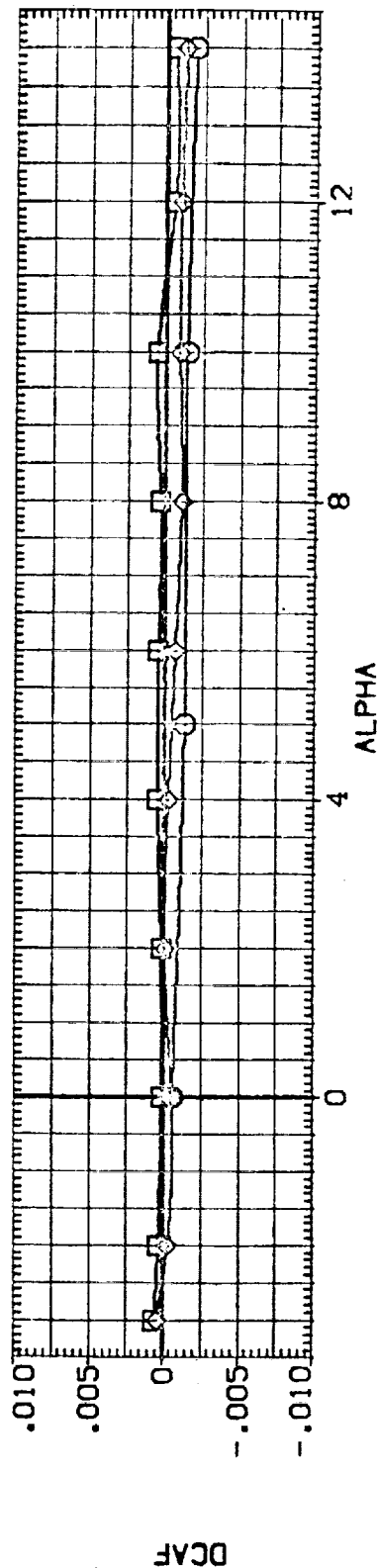
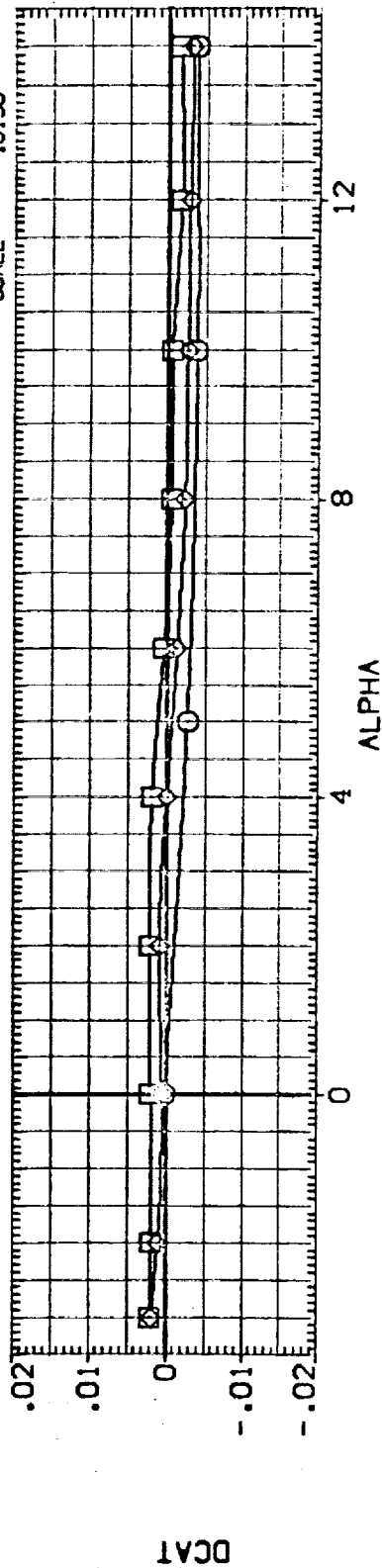


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER012)	ARC 66-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

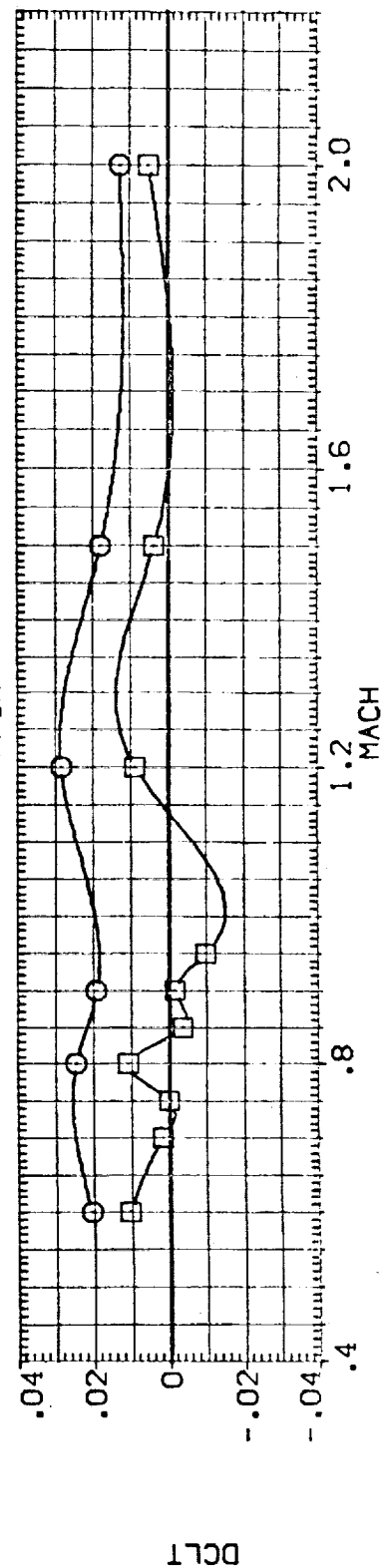
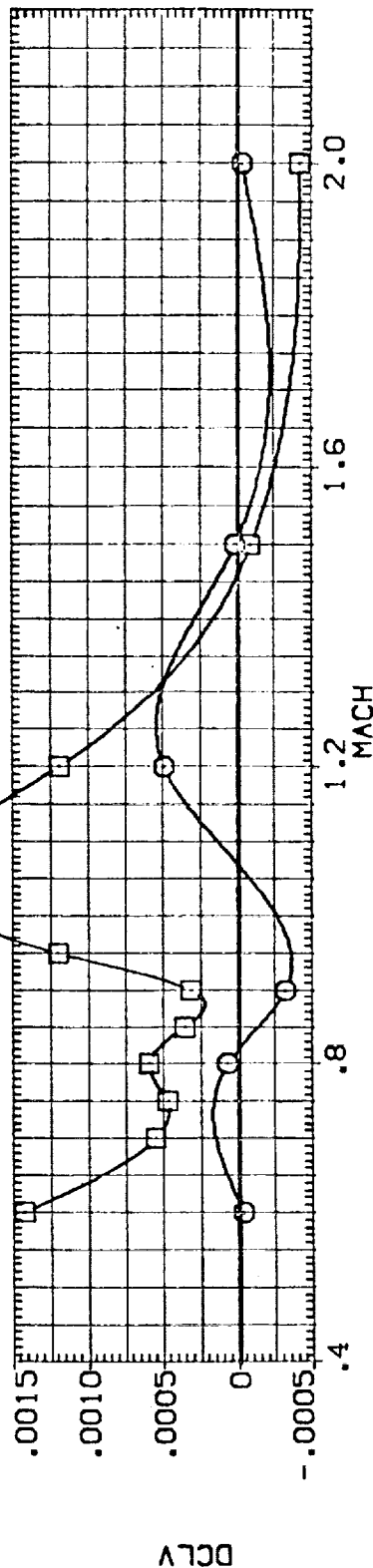
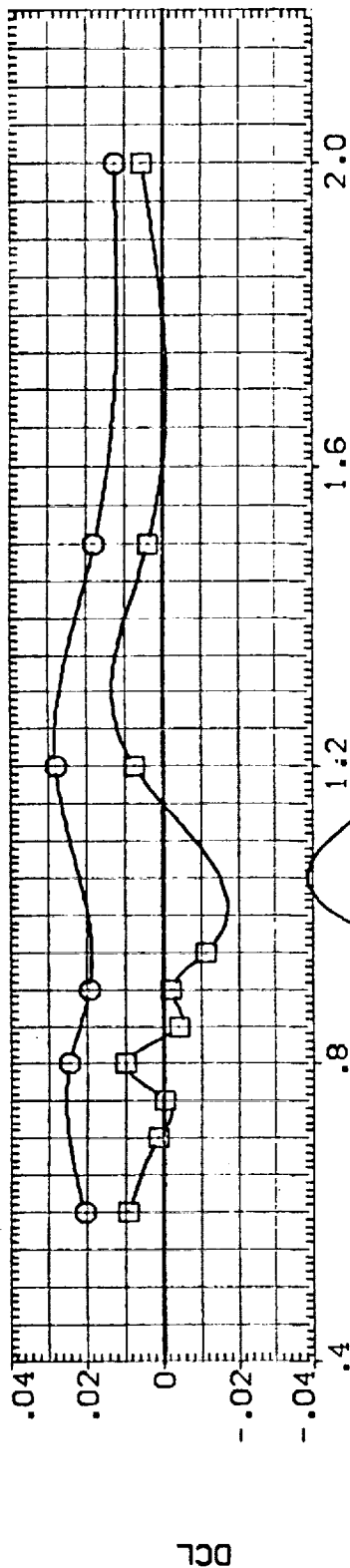


FIG. 9 PITCH TARE DATA COMPONENTS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

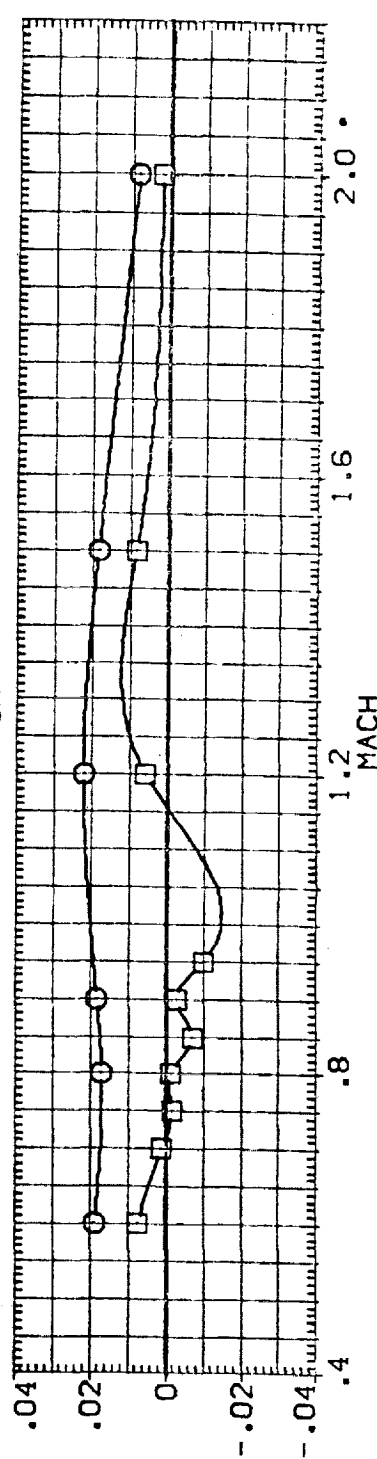
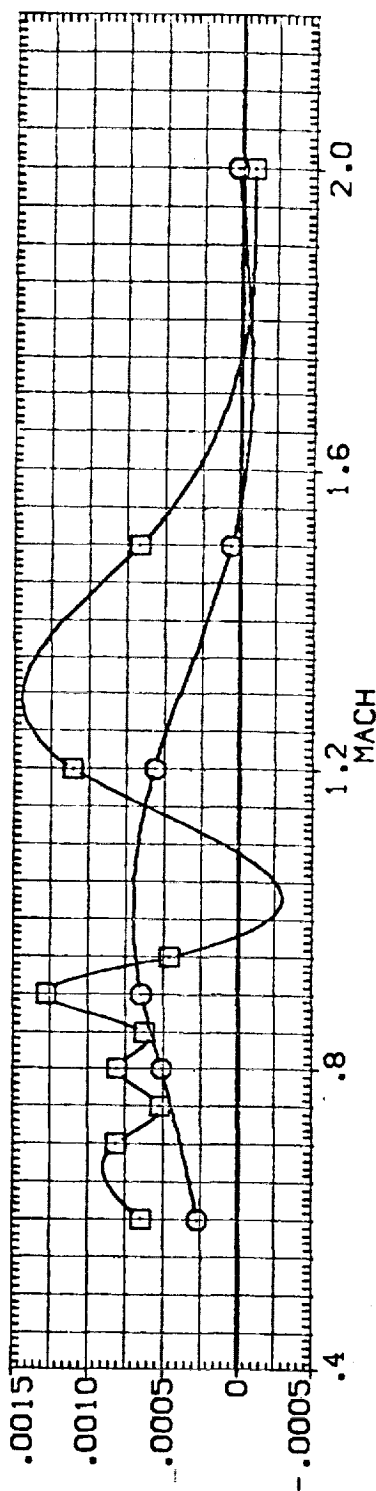
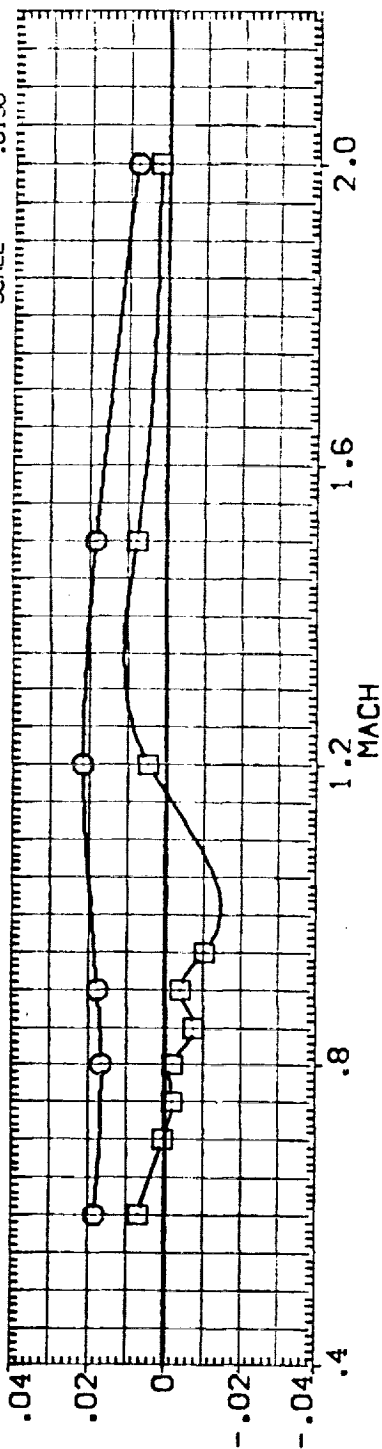


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(UER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

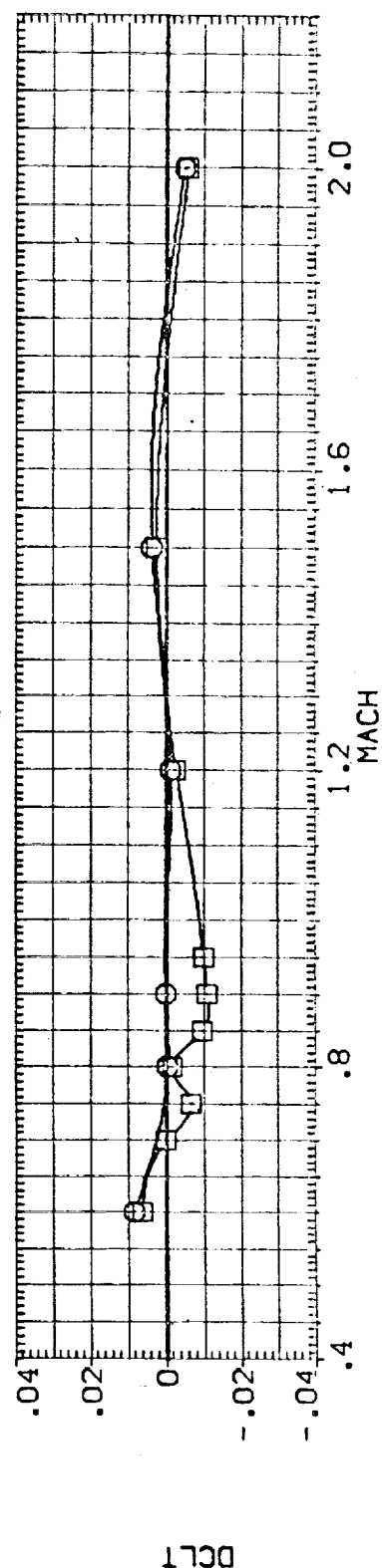
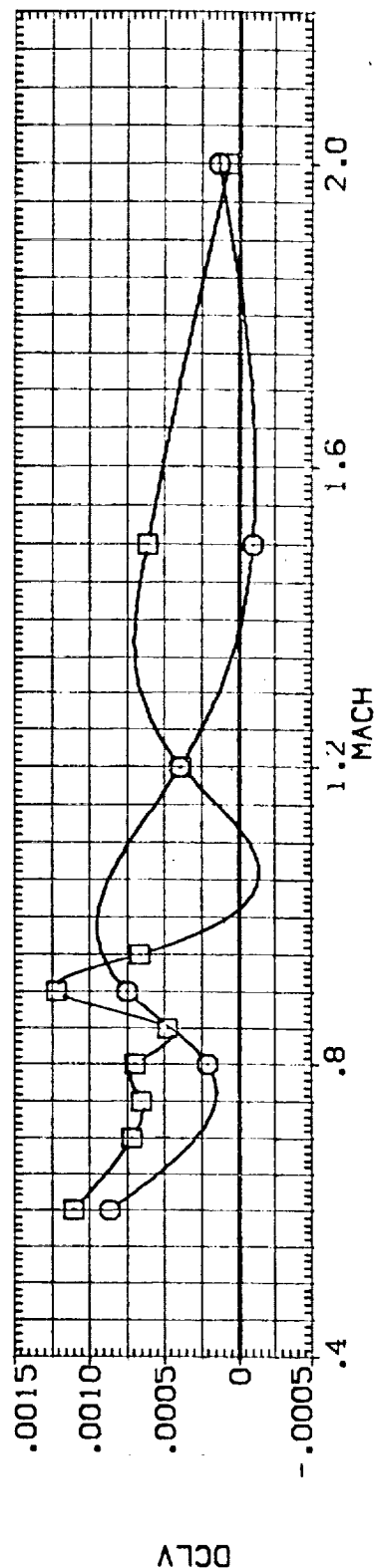
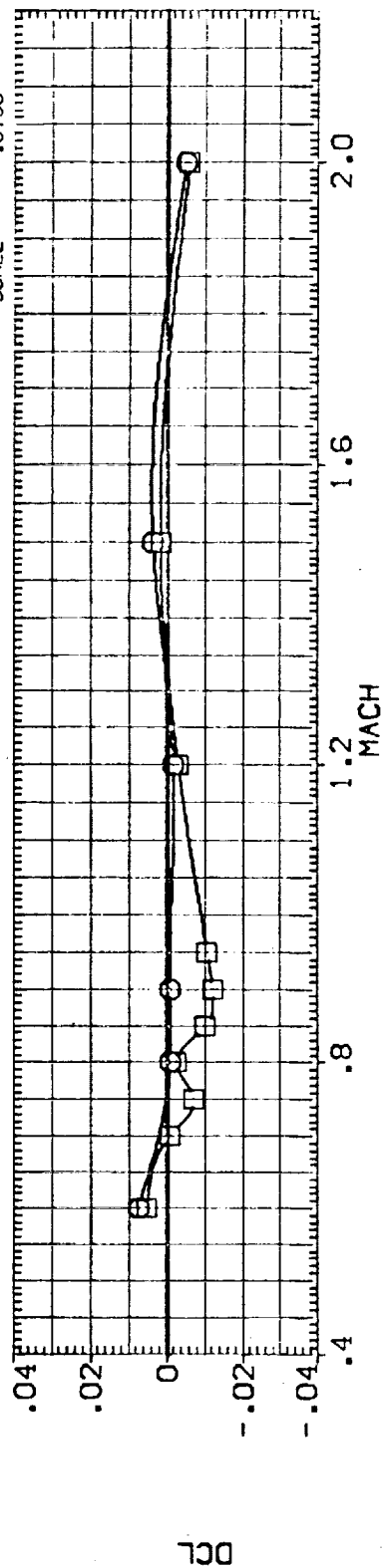


FIG. 9 PITCH TARE DATA COMPONENTS  
(CJALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER009) ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT  
 (UER012) ARC 66-709 0A59 0A11A-(RS V8)-STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

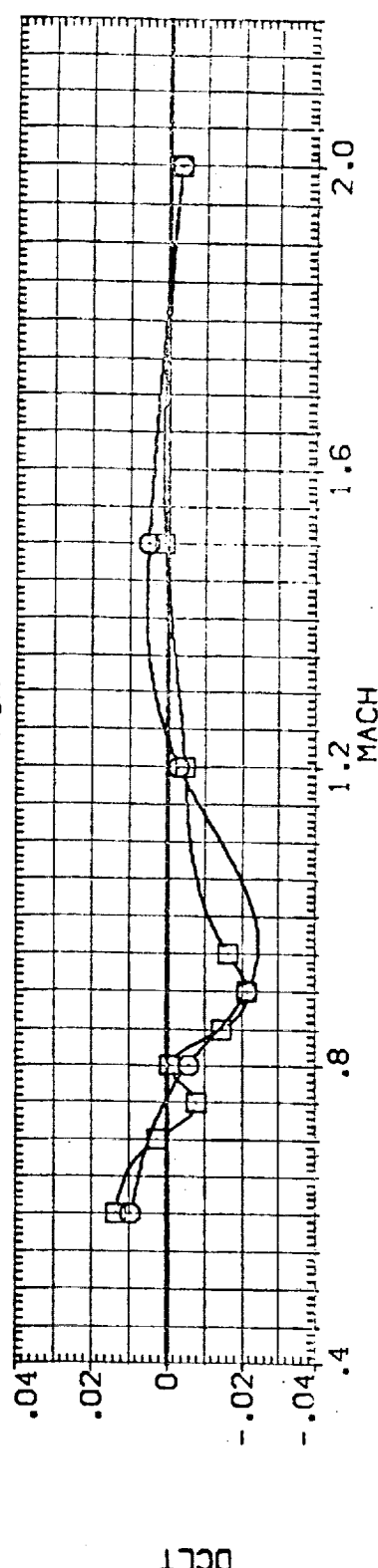
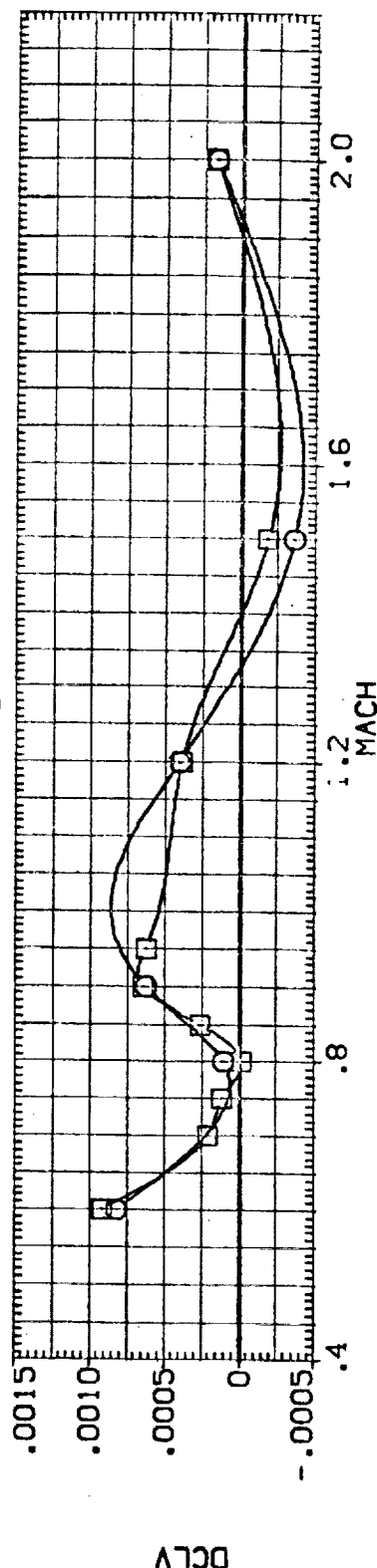
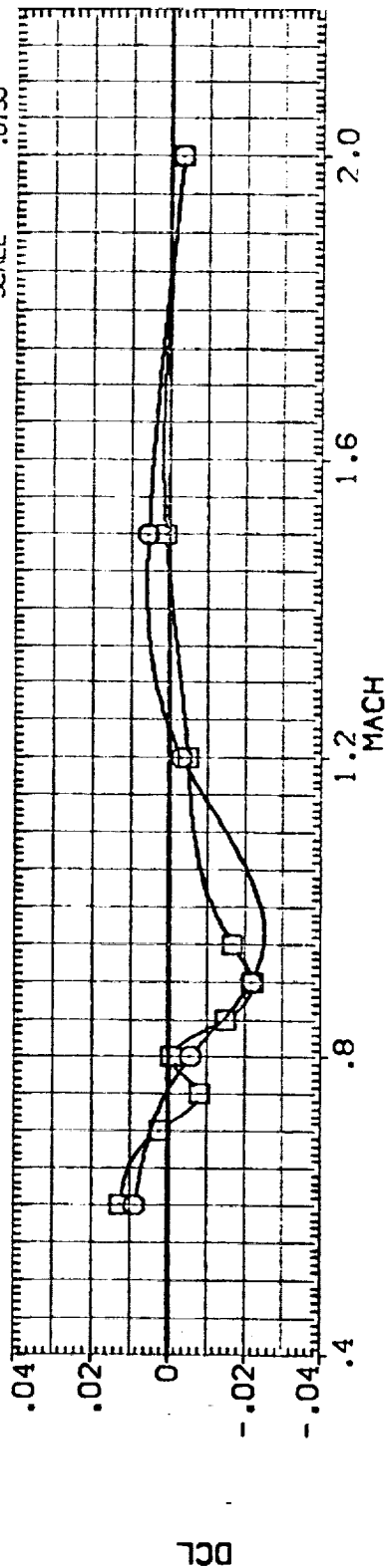


FIG. 9 PITCH TARE DATA COMPONENTS

(C) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{UER009}	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{UER012}	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

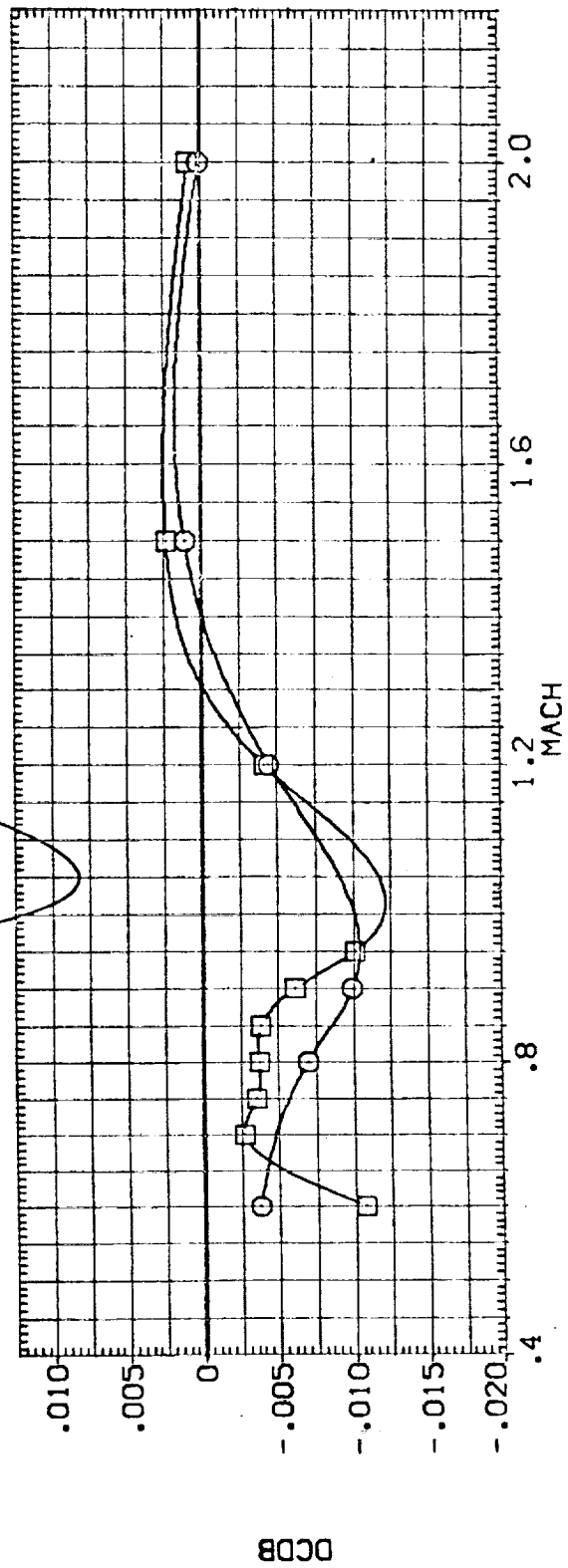
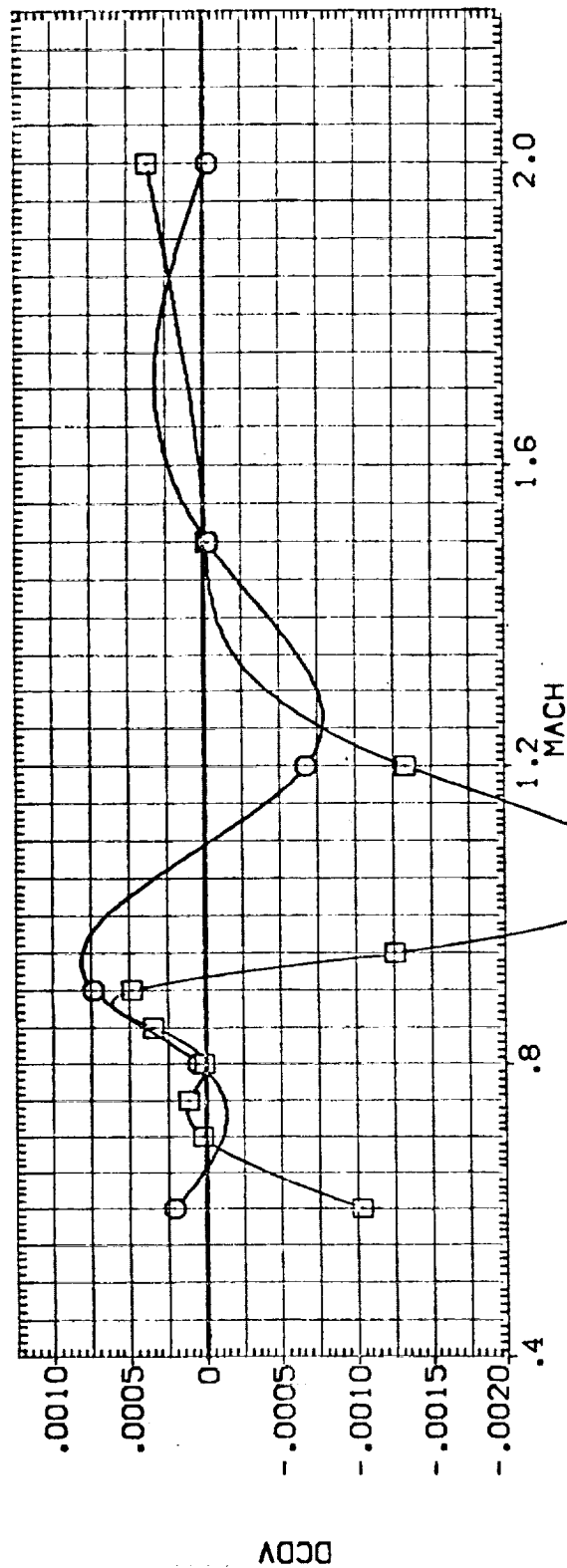


FIG. 9 PITCH TARE DATA COMPONENTS

(A) ALPHA = .00

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER009) □ ARC 66-709 OAS9 DA11A-(N24 R5 V8)+STRUT  
 (UER012) □ ARC 66-709 OAS9 DA11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

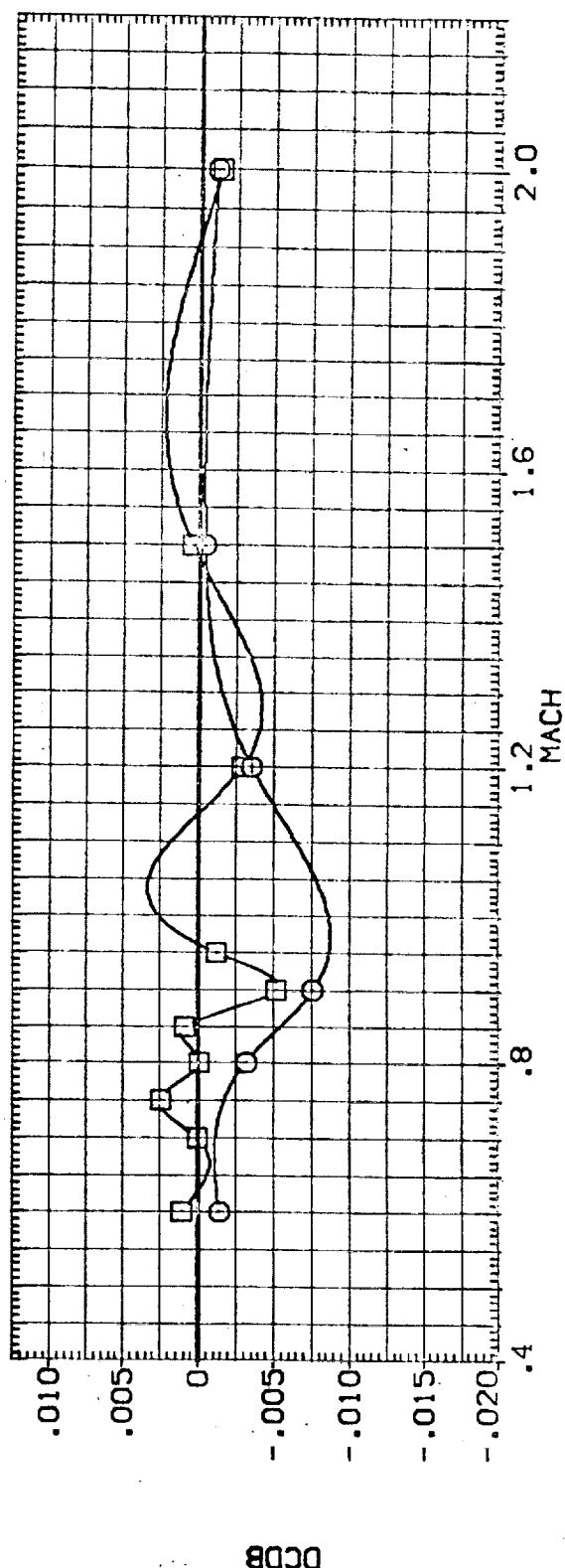
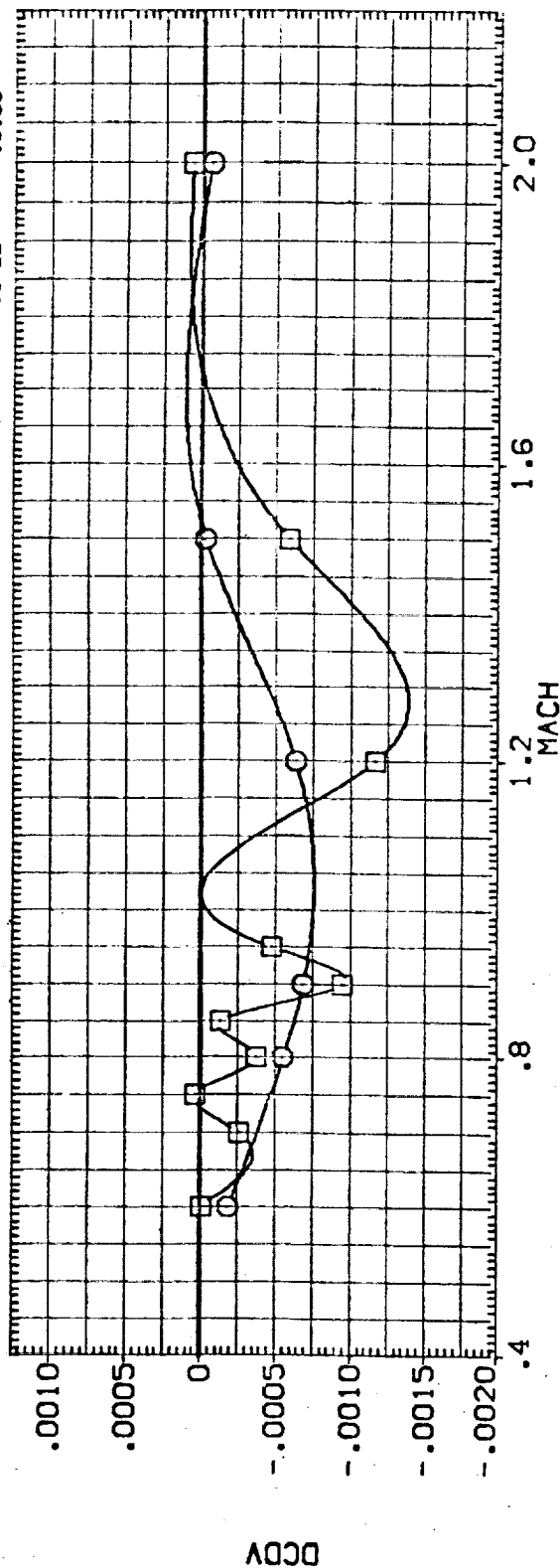


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER012)	ARC 66-709 QAS9 0A11A-(RS-V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

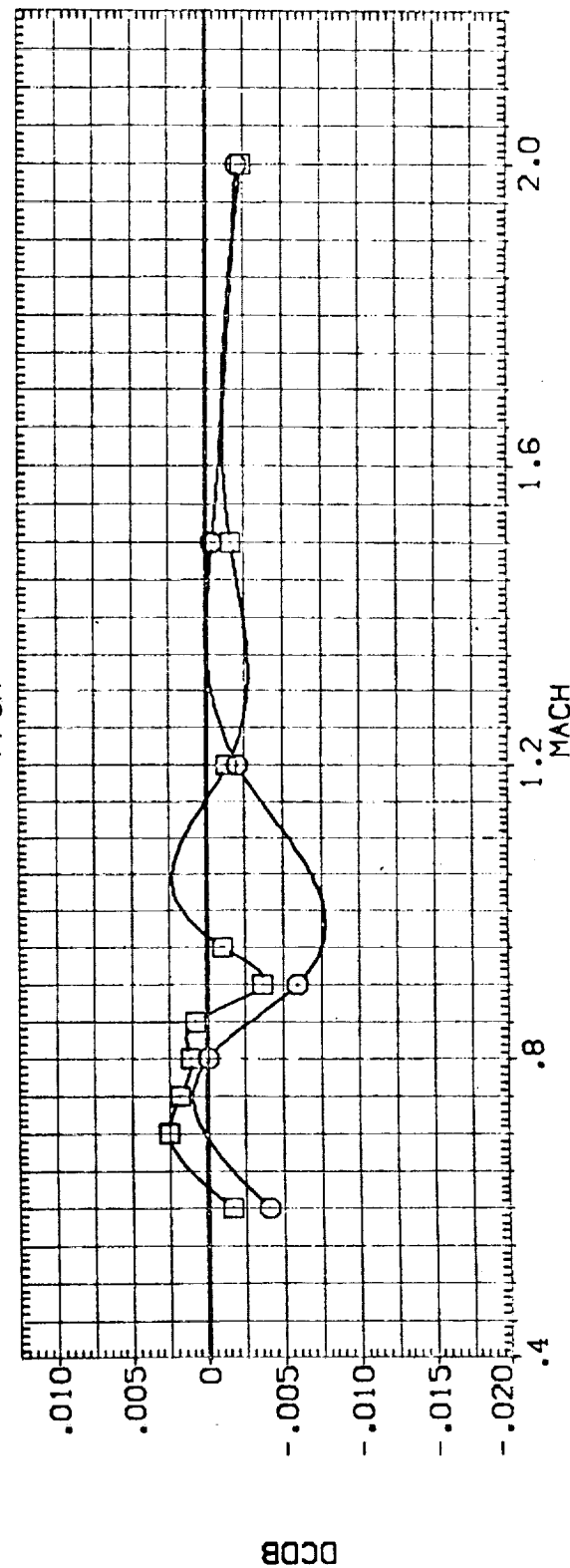
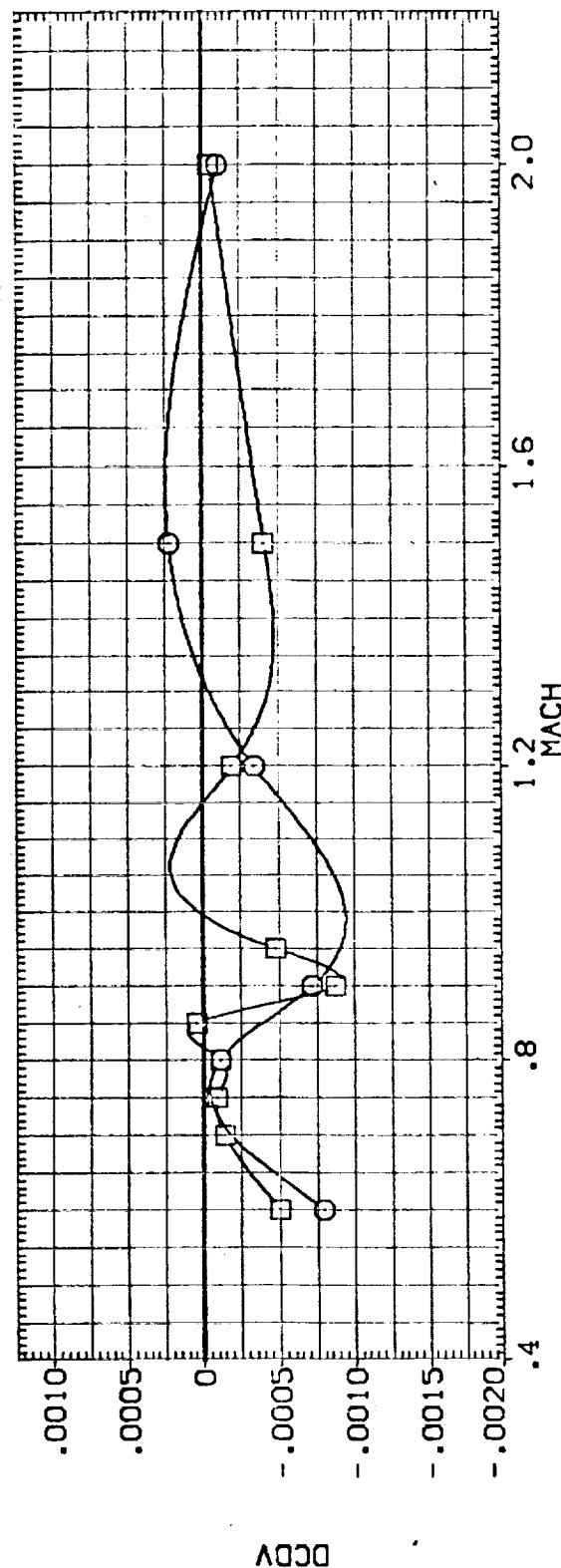


FIG. 9 PITCH TARE DATA COMPONENTS

(CJALPHA = 10.00

DATA SET SYMBOL. CONFIGURATION DESCRIPTION  
 (UER009) ARC 66-709 OAS9 0A11A-(N24 R5 V81+STRUT  
 (UER012) ARC 66-709 OAS9 0A11A-(R5 V81+STRUT

BETA ELEVON BDFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

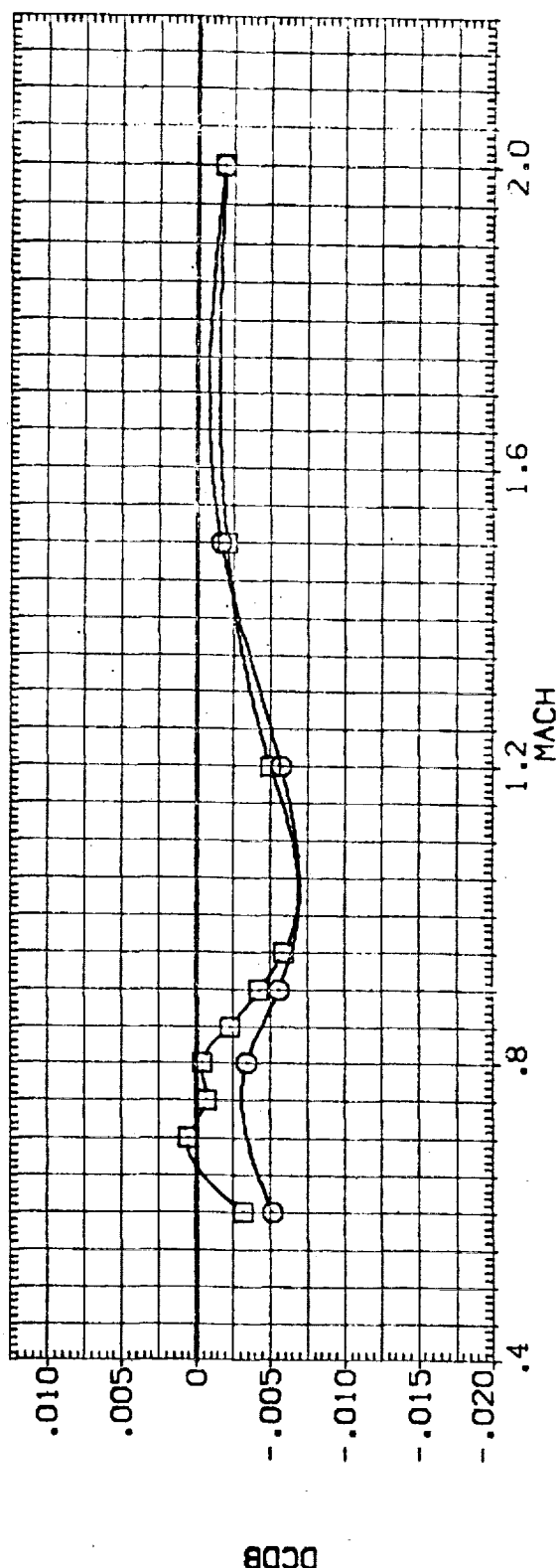
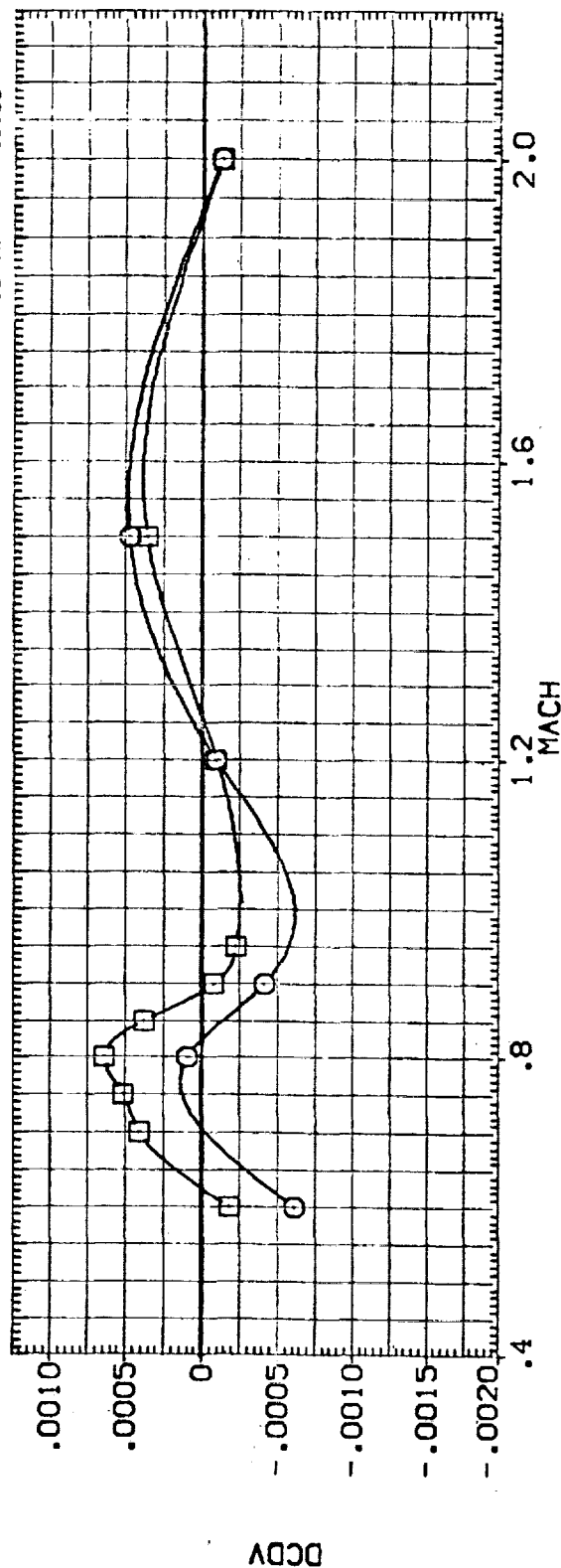


FIG. 9 PITCH TARE DATA COMPONENTS

(O) ALPHA = 14.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER012)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					XMRP 12.6255 IN.
					ZMRP -.3750 IN.
					SCALE .0150

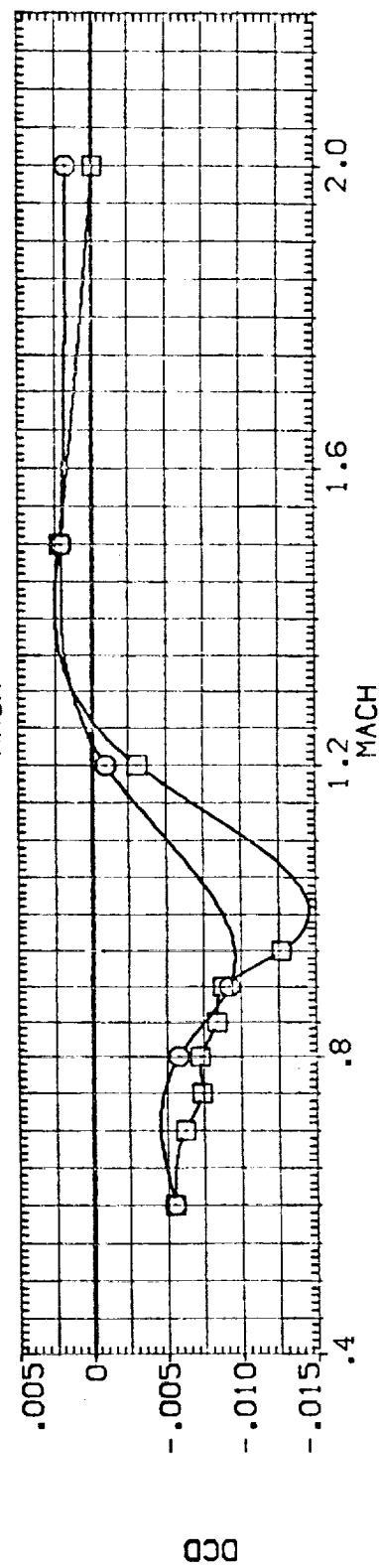
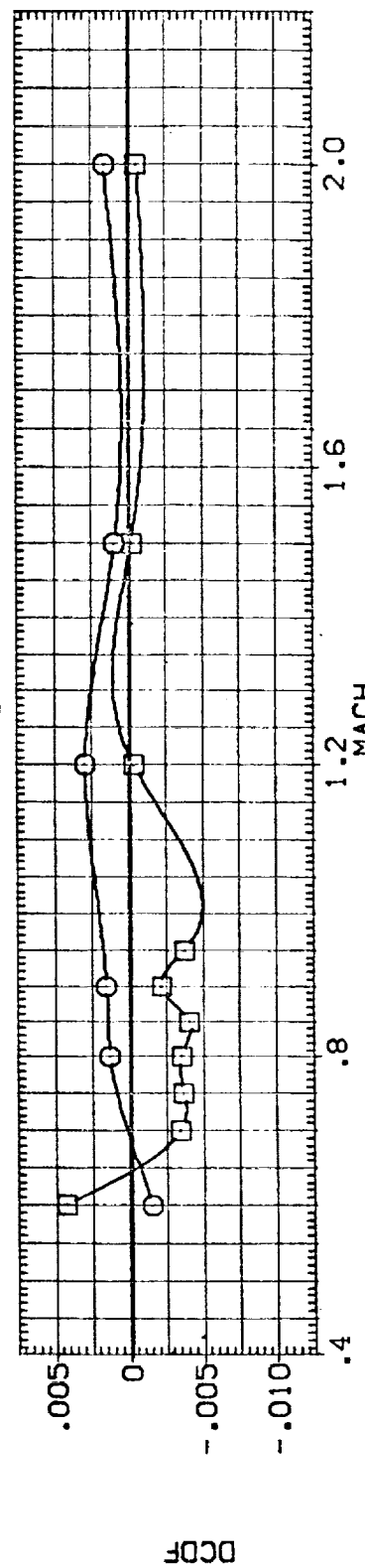
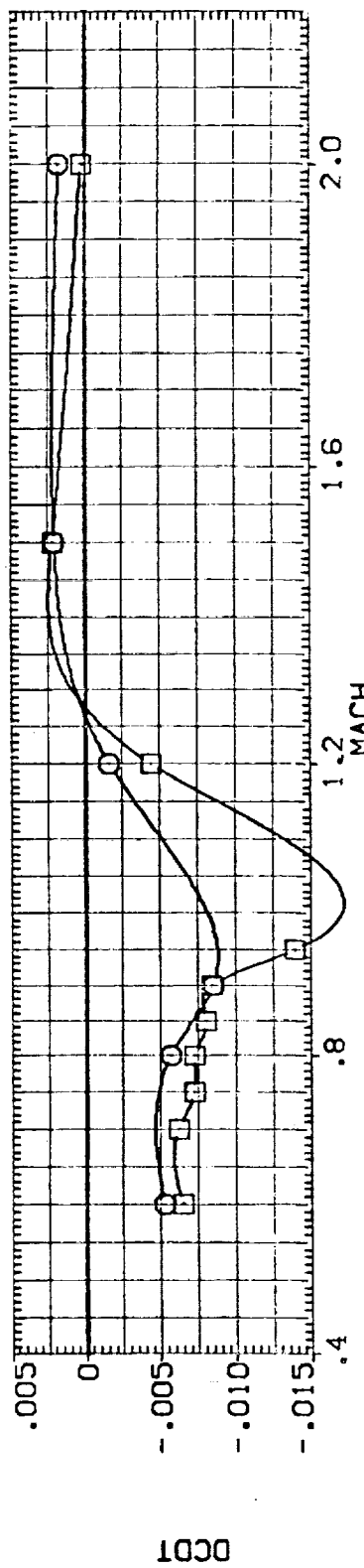


FIG. 9 PITCH TARE DATA COMPONENTS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 QAS9 QALIA-(N24 P5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER012)	ARC 66-709 QAS9 QALIA-(R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

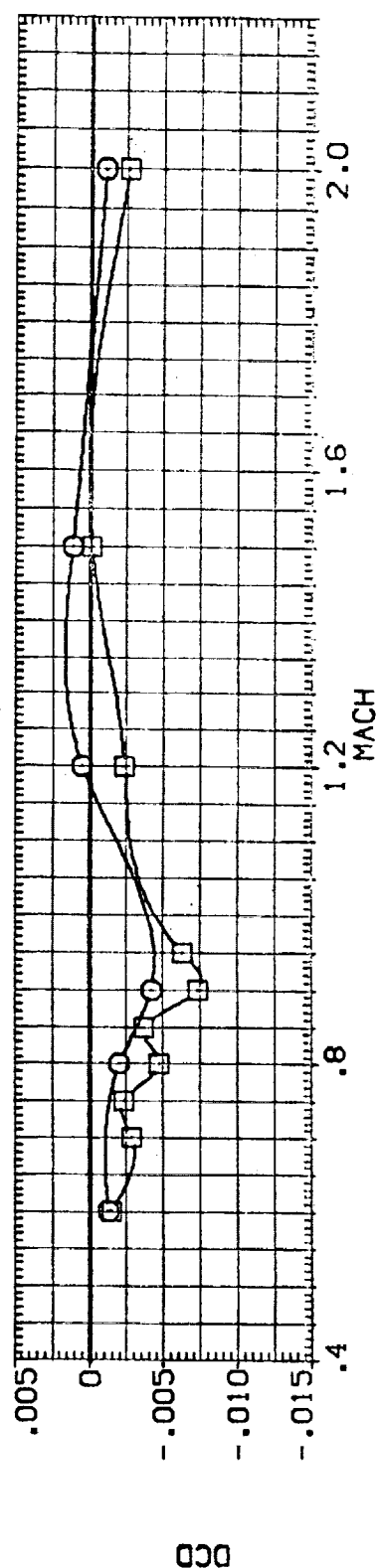
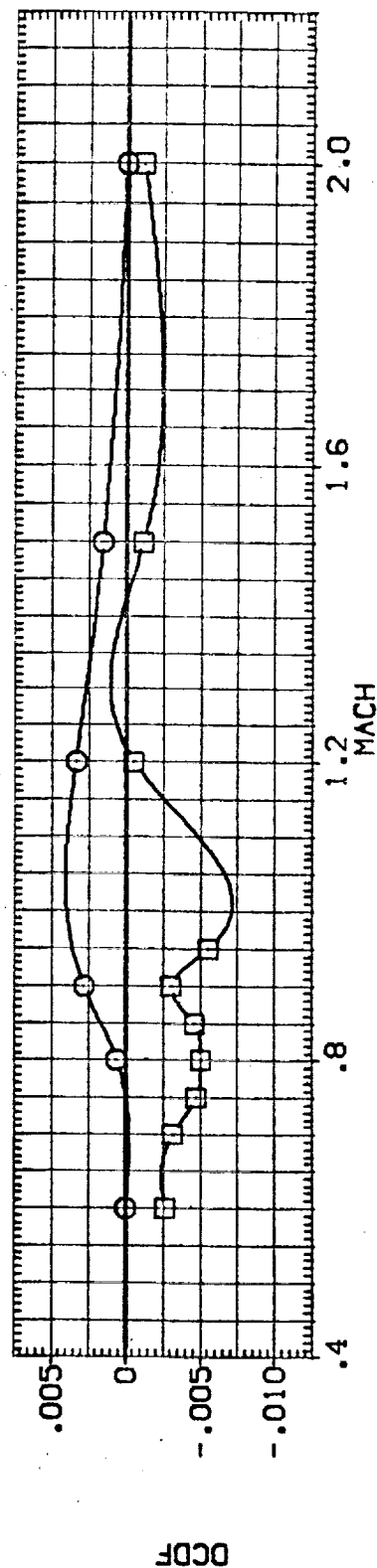
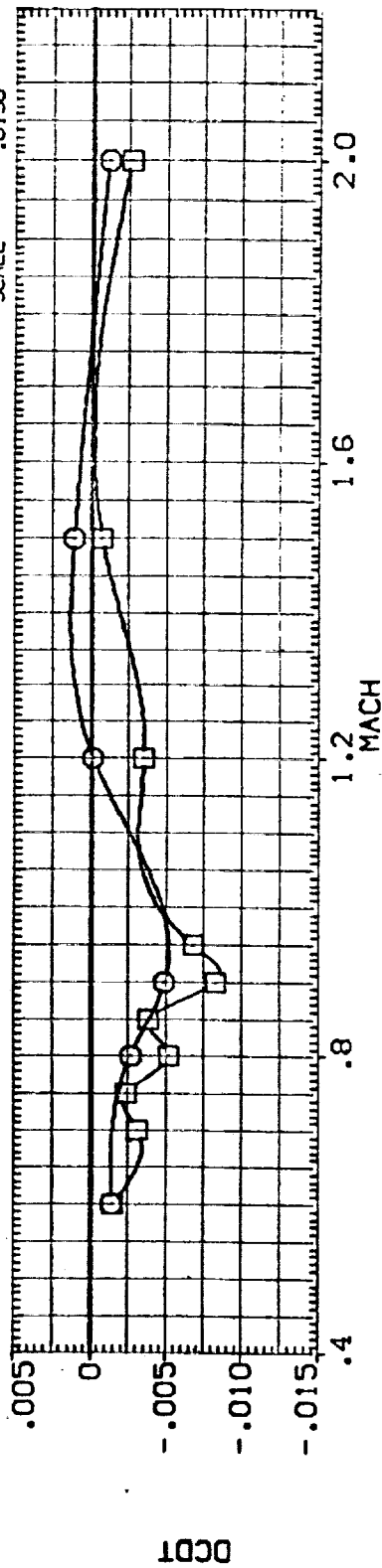


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UERO09) □ ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT  
 (UERO12) □ ARC 66-709 DASS DA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 50.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

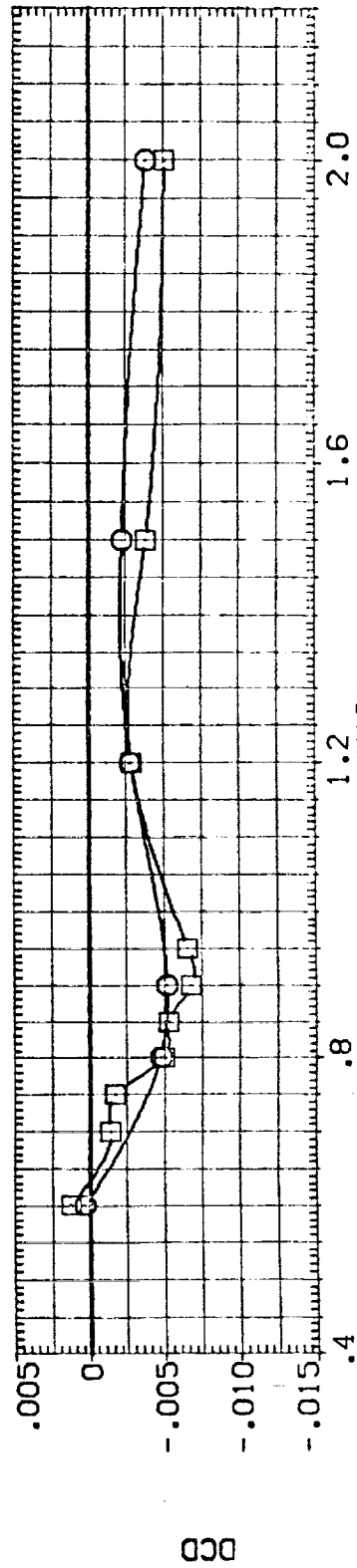
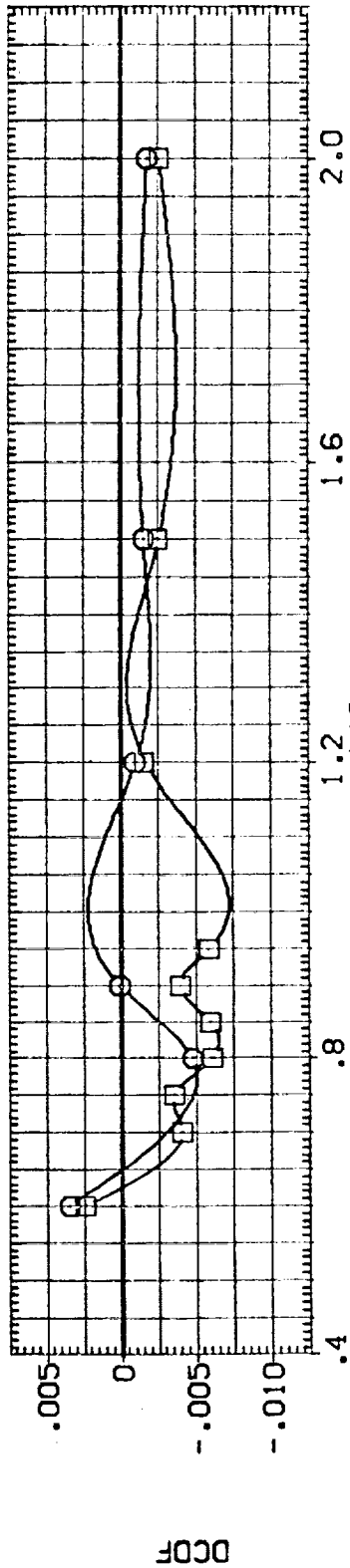
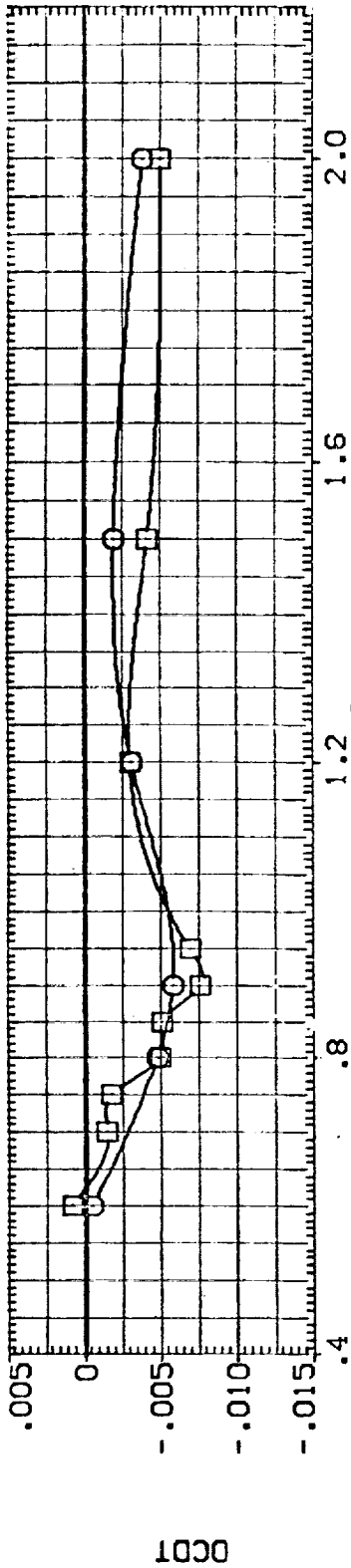


FIG. 9 PITCH TARE DATA COMPONENTS

(C) ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (UER009) [ ] ARC 66-709 QAS9 QALIA-(N24 RS V8)+STRUT  
 (UER012) [ ] ARC 66-709 QAS9 QALIA-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

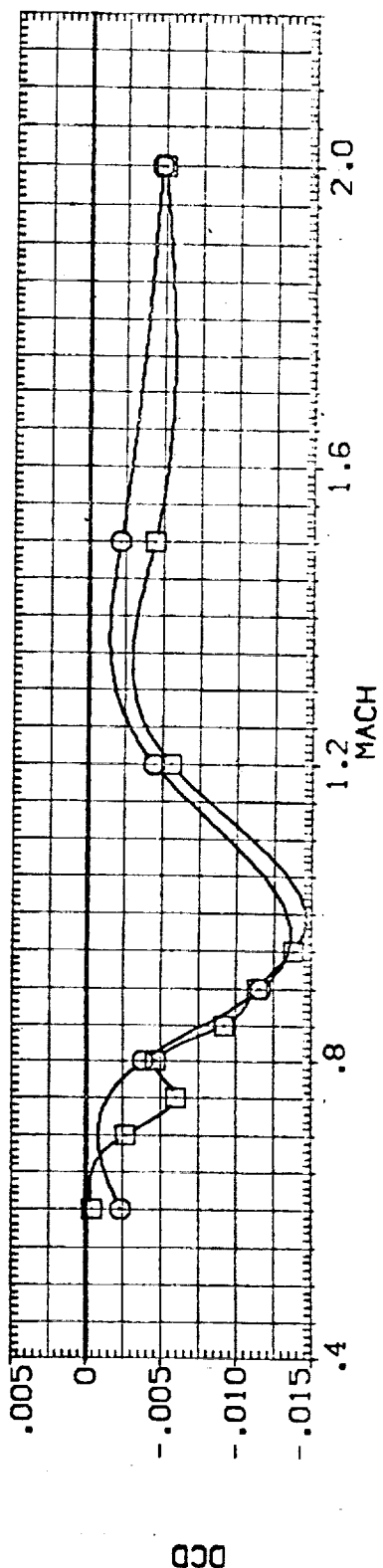
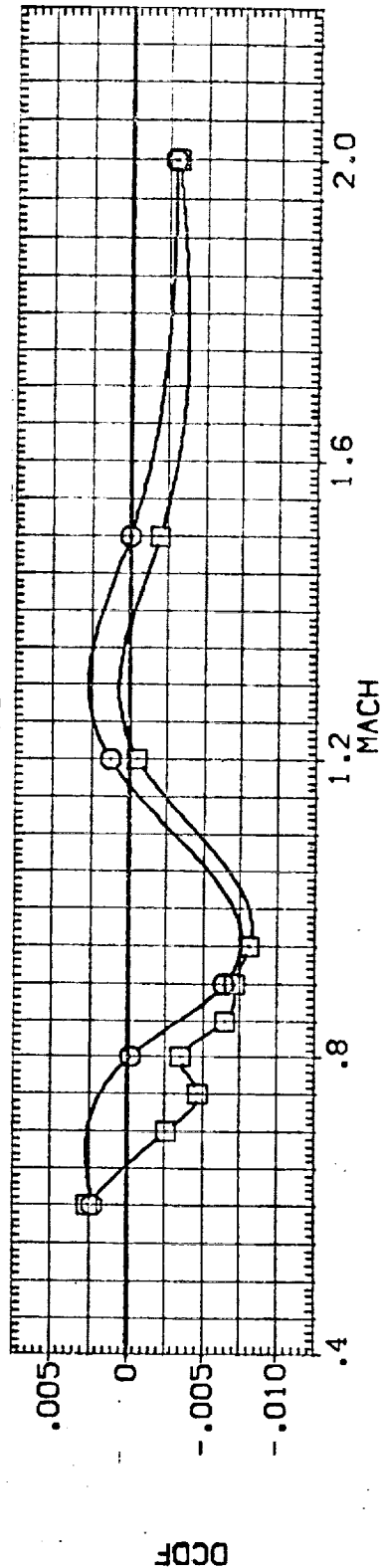
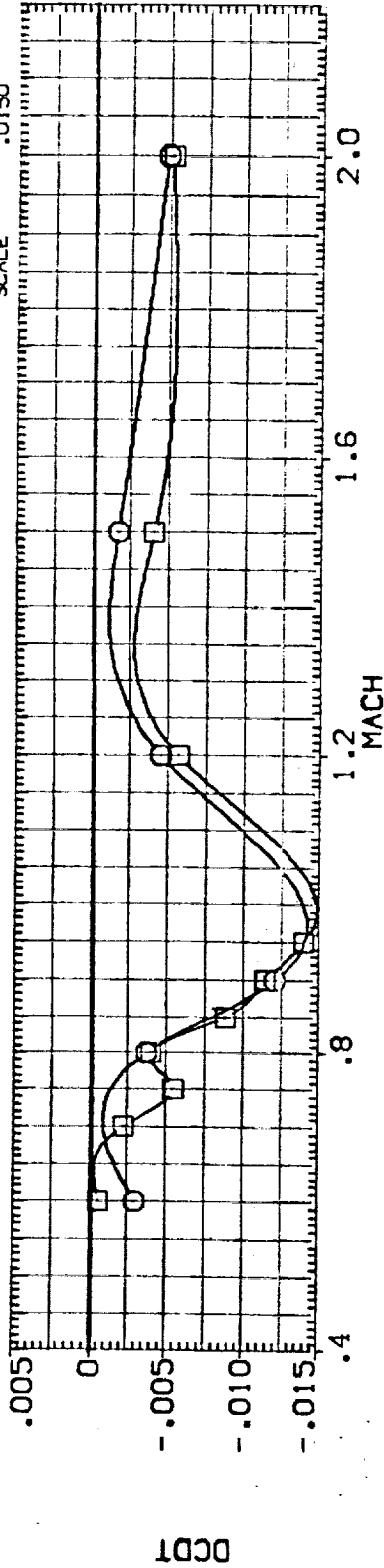




FIG. 9 PITCH TARE DATA COMPONENTS  
 (D) ALPHA = 14.00

DATA SET SYMBOL (VER009)  CONFIGURATION DESCRIPTION  
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT  
 (VER012)  ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA .000  
 ELEVON .000  
 BOFLAP -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

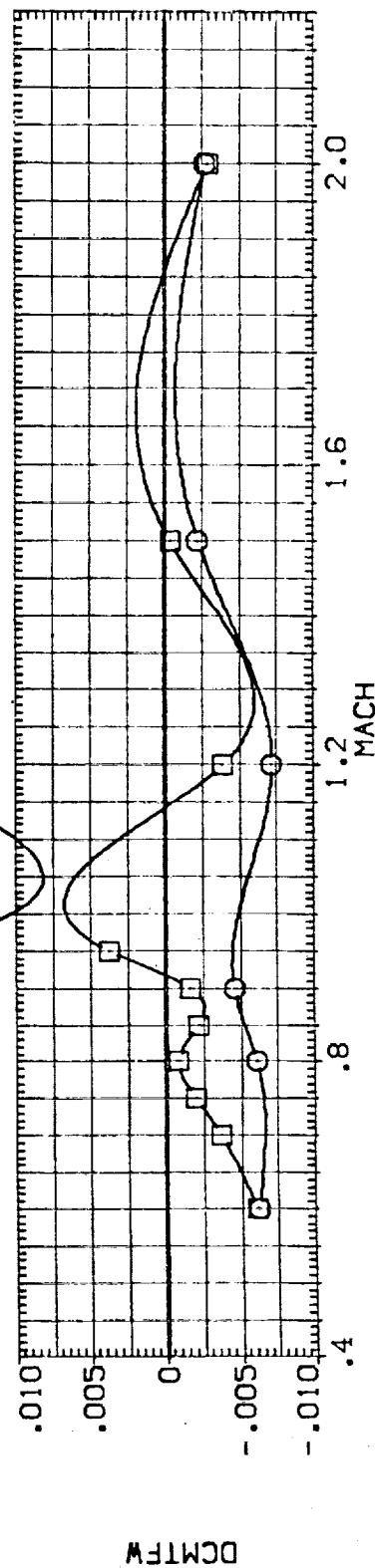
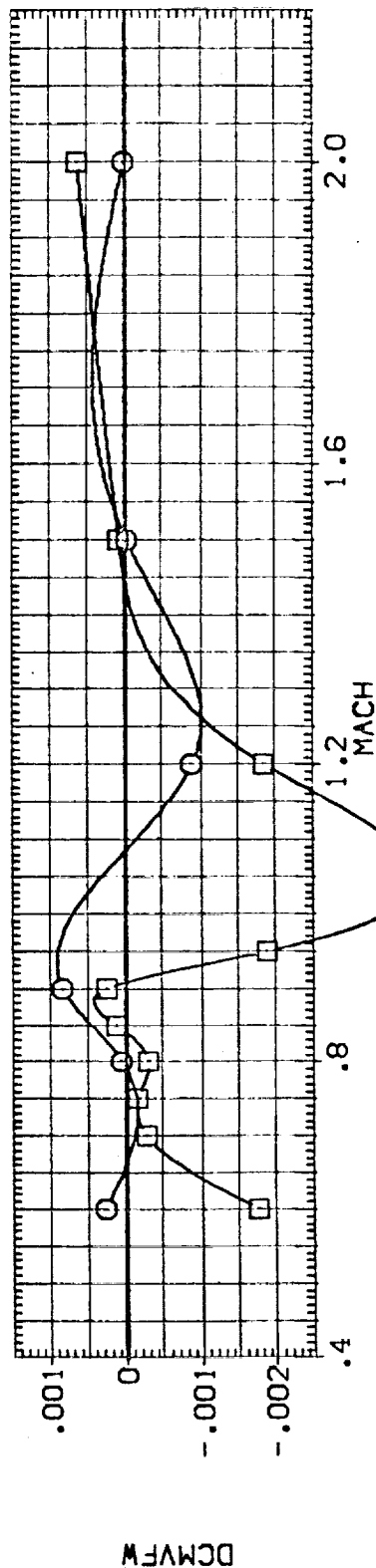
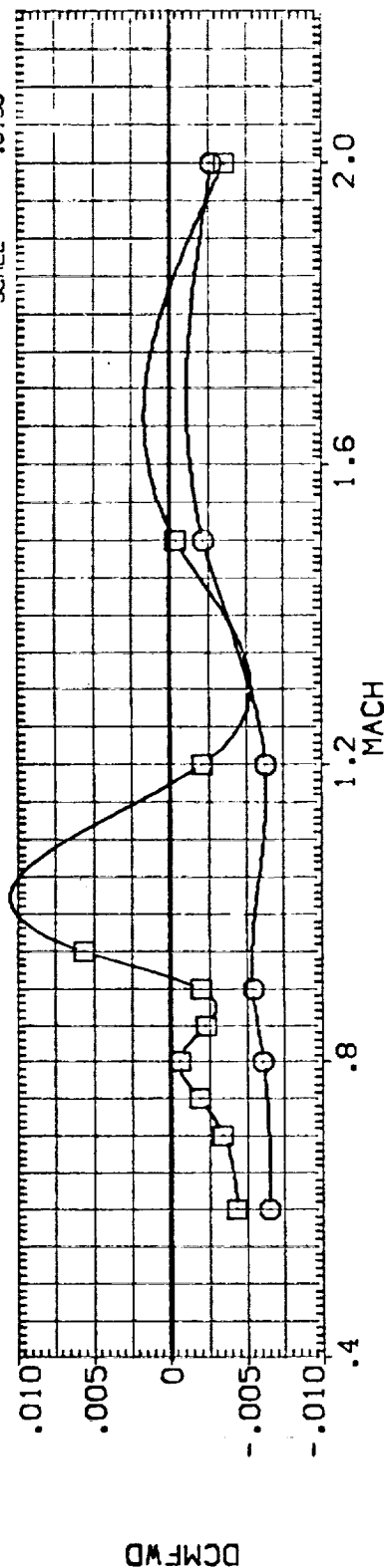


FIG. 9 PITCH TARE DATA COMPONENTS

(ALPHA = .00

DATA SET SYMBOL: [VER009] [VER012] CONFIGURATION DESCRIPTION: ARC 66-709 QAS9 QALIA-(N24 RS V8)-STRUT ARC 66-709 QAS9 QALIA-(RS V8)-STRUT

BETA: .000 ELEVON: .000 BOFLAP: .000 -11.700

REFERENCE INFORMATION: SREF: .6053 SQ.FT. LREF: .5935 FT. BREF: 1.1710 FT. XMRP: 12.6255 IN. YMRP: .0000 IN. ZMRP: -.3750 IN. SCALE: .0150

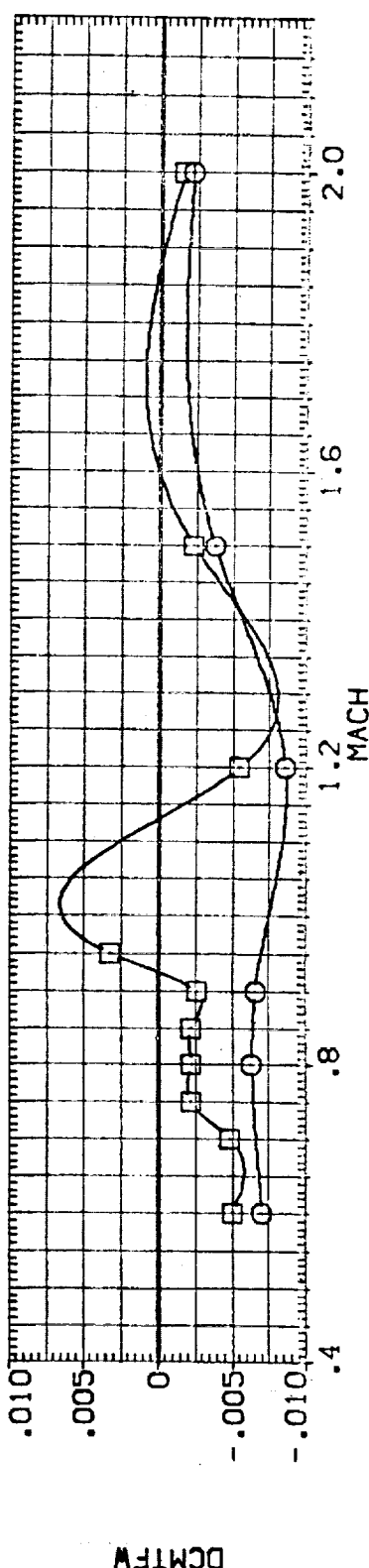
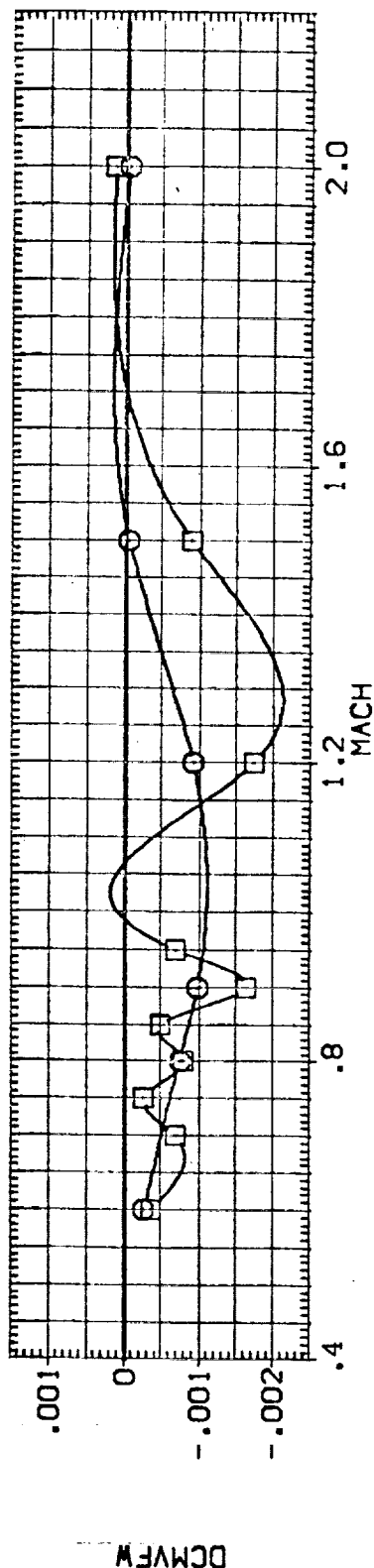
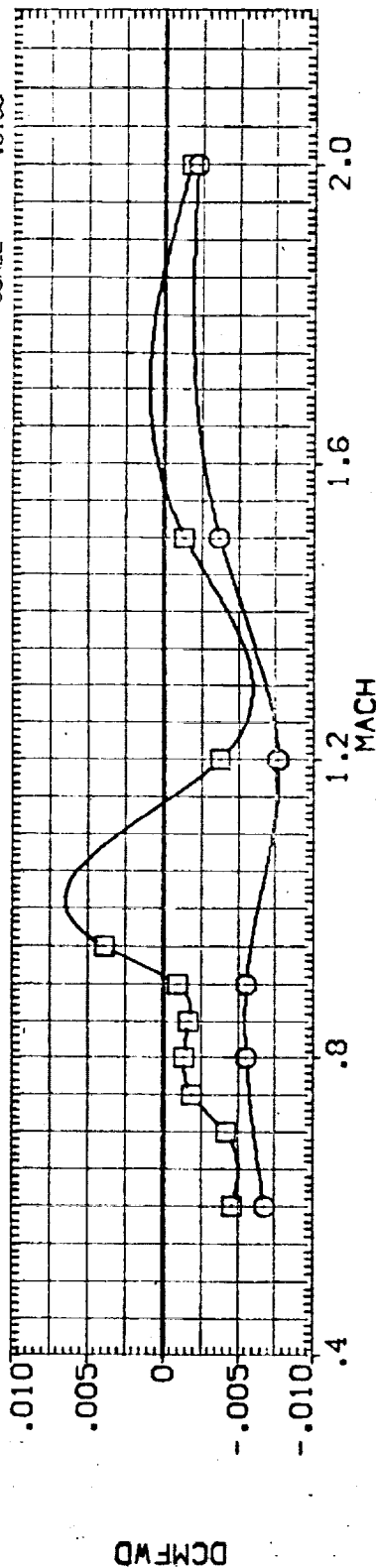


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL (VER008) (VER012)

CONF IGURATION DESCRIPTION  
 ARC 65-709 DASS (A11A-(N24 RS V8)+STRUT  
 ARC 65-709 DASS (A11A-(RS V8)+STRUT

BETA .000 .000

ELEVON .000 .000

BOFLAP -11.700 -11.700

REFERENCE INFORMATION  
 SPREF .6053 50.FT.  
 LREF .5935 FT.  
 BRREF 1.1710 FT.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

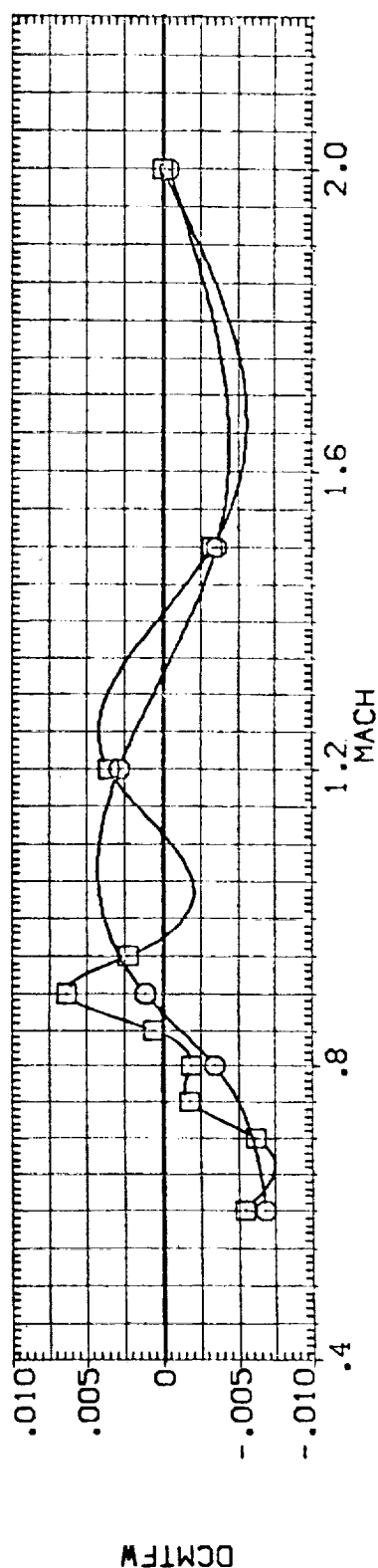
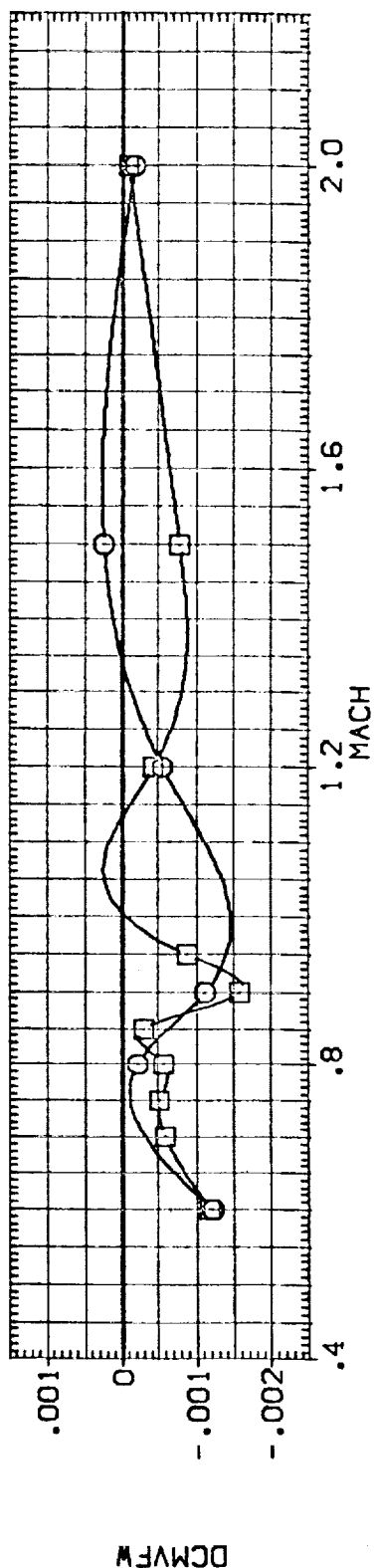
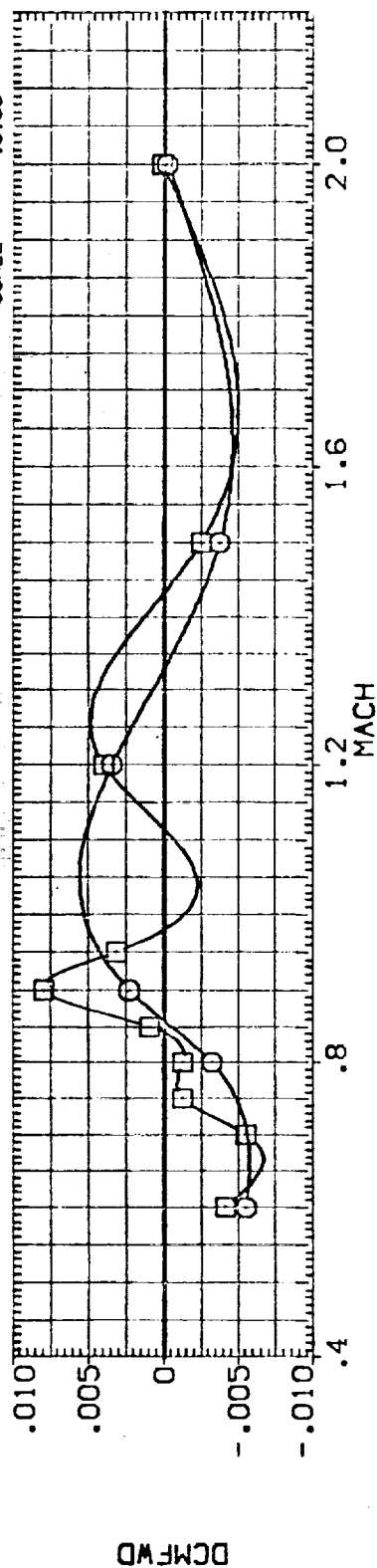


FIG. 9 PITCH TARE DATA COMPONENTS  
 (C) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER009}	ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{VER012}	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

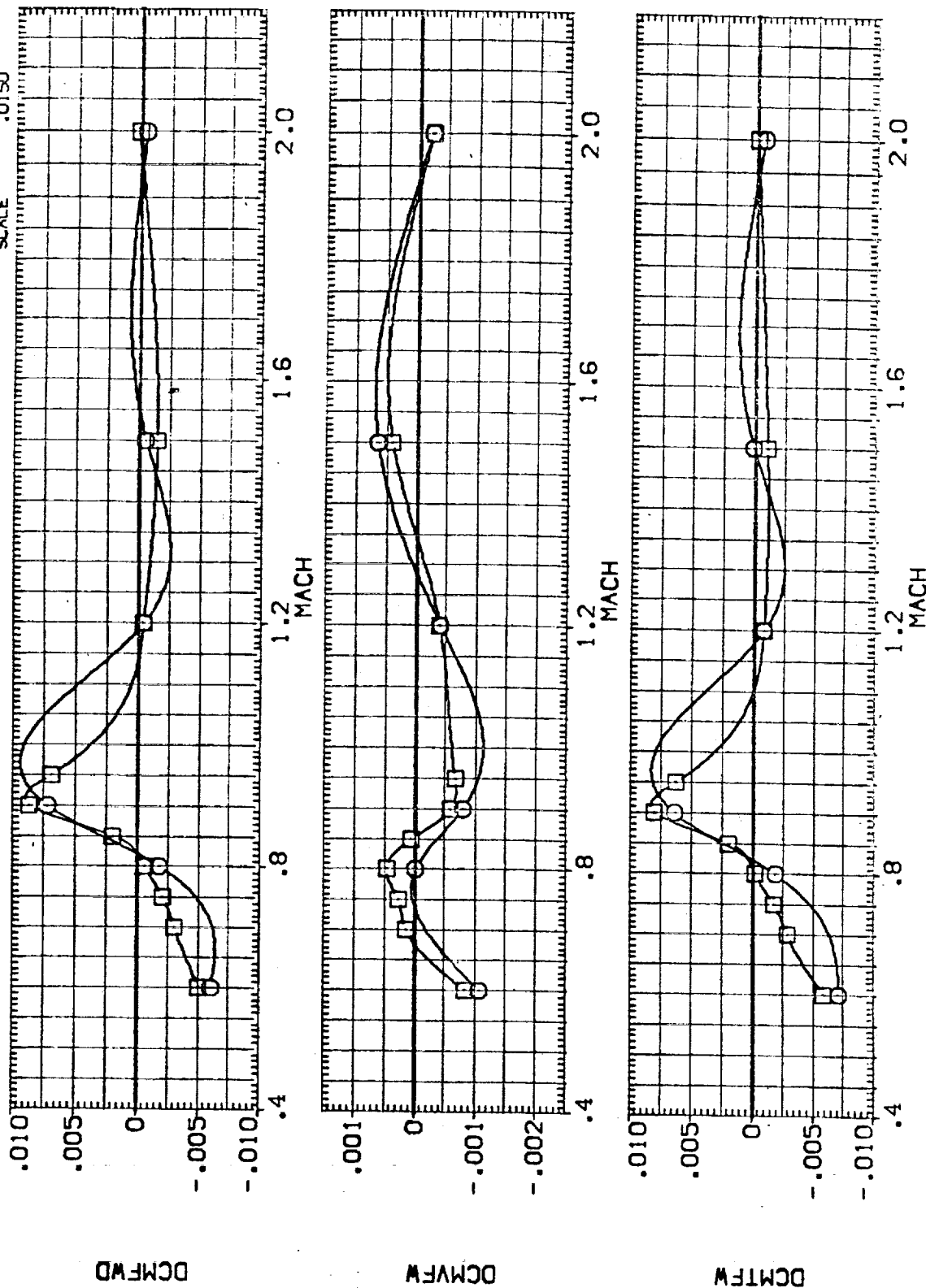




FIG. 9 PITCH TARE DATA COMPONENTS

(DJALPHA = 14.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VER009)  ARC 66-709 OAS9 OAI1A-(N24 R5 V8)+STRUT

(VER012)  ARC 66-709 OAS9 OAI1A-(R5 V8)+STRUT

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5335 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

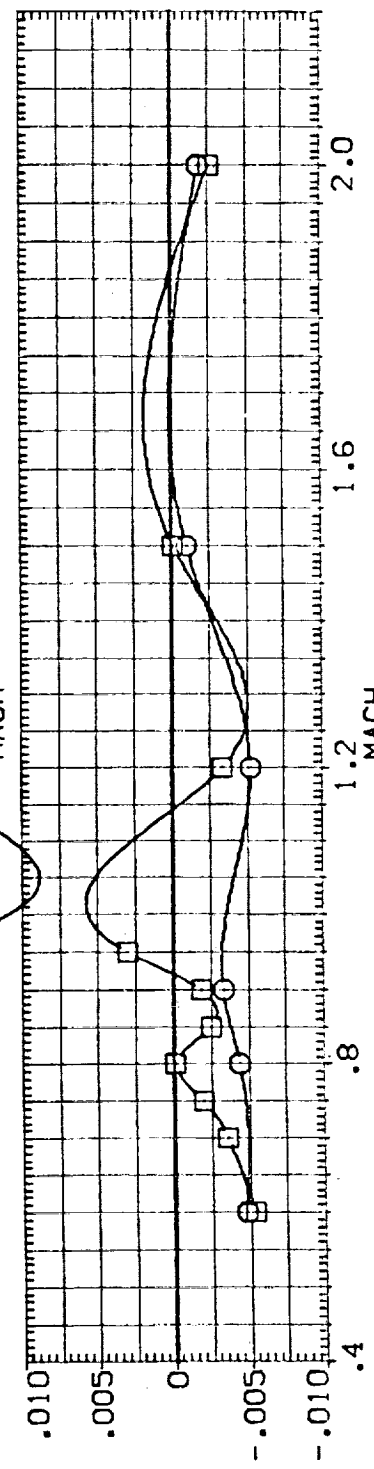
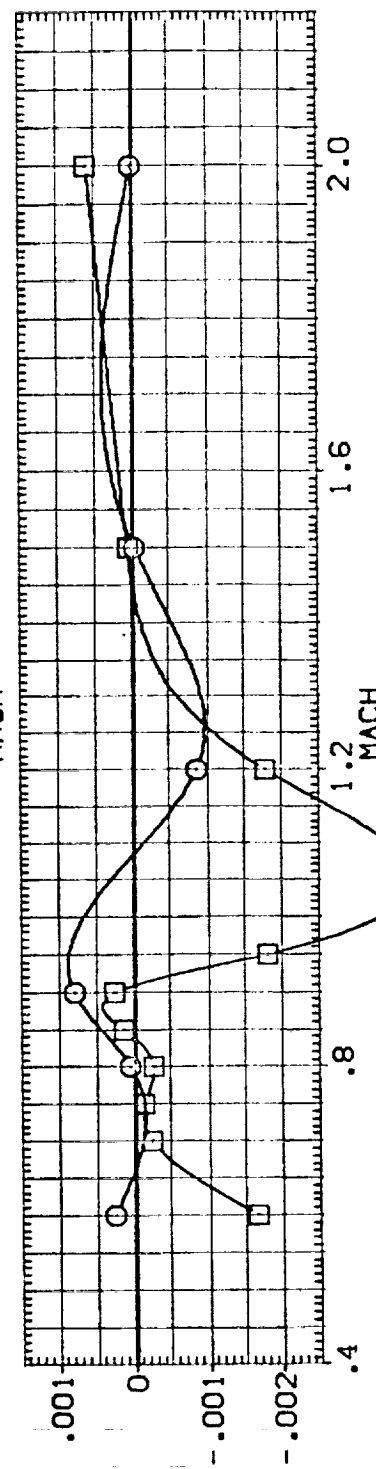
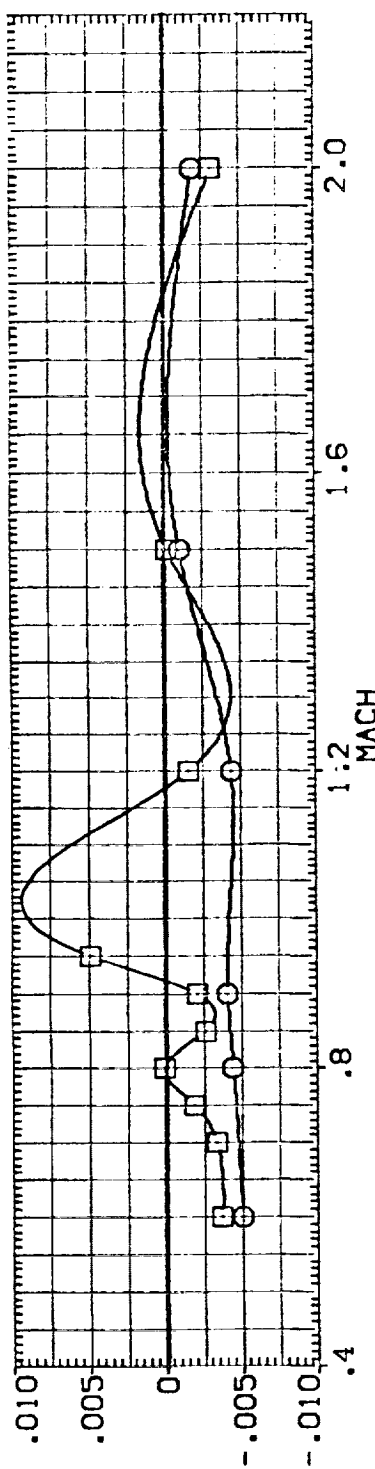


FIG. 9 PITCH TARE DATA COMPONENTS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					XMRP 12.6255
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

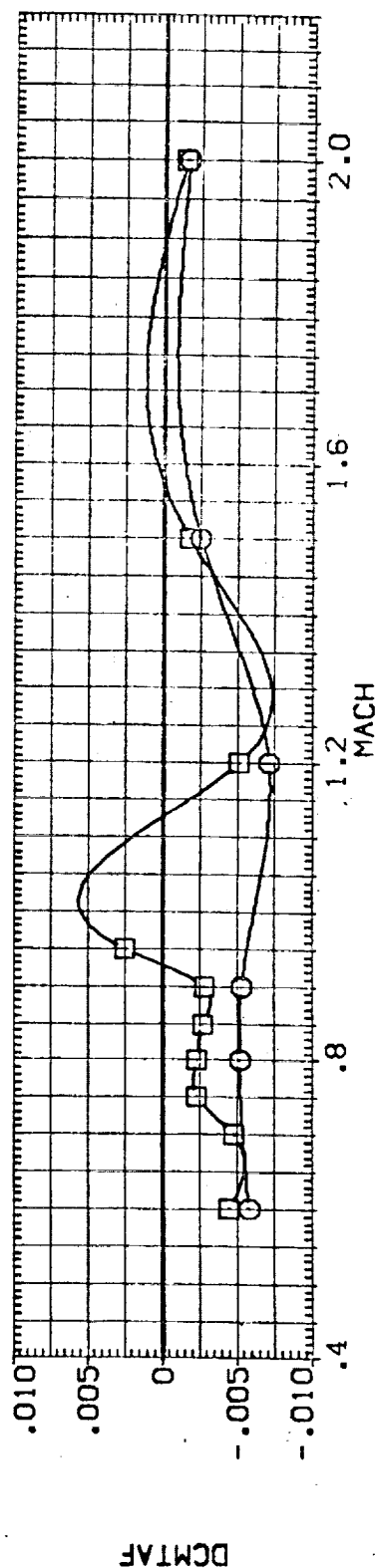
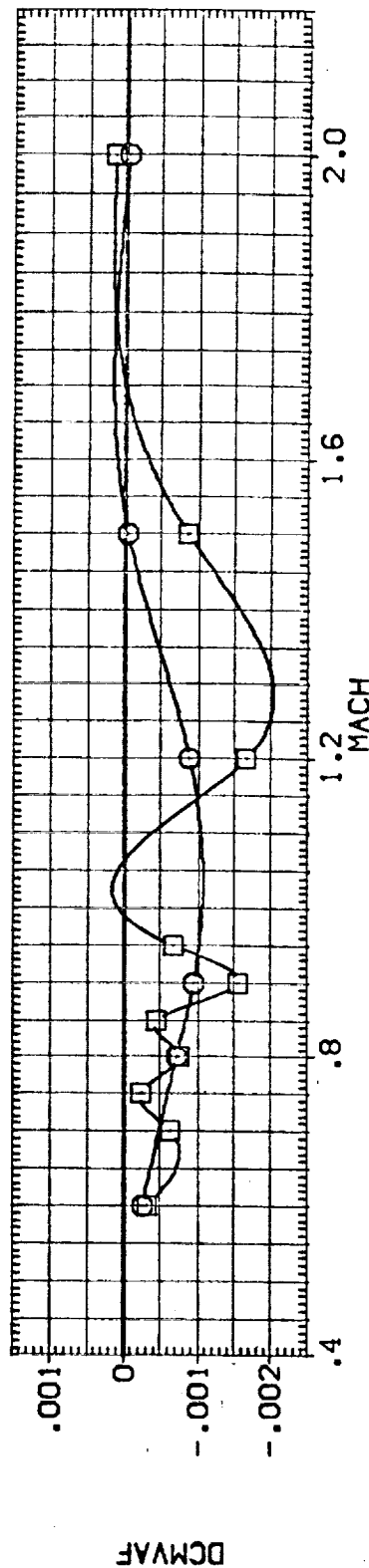
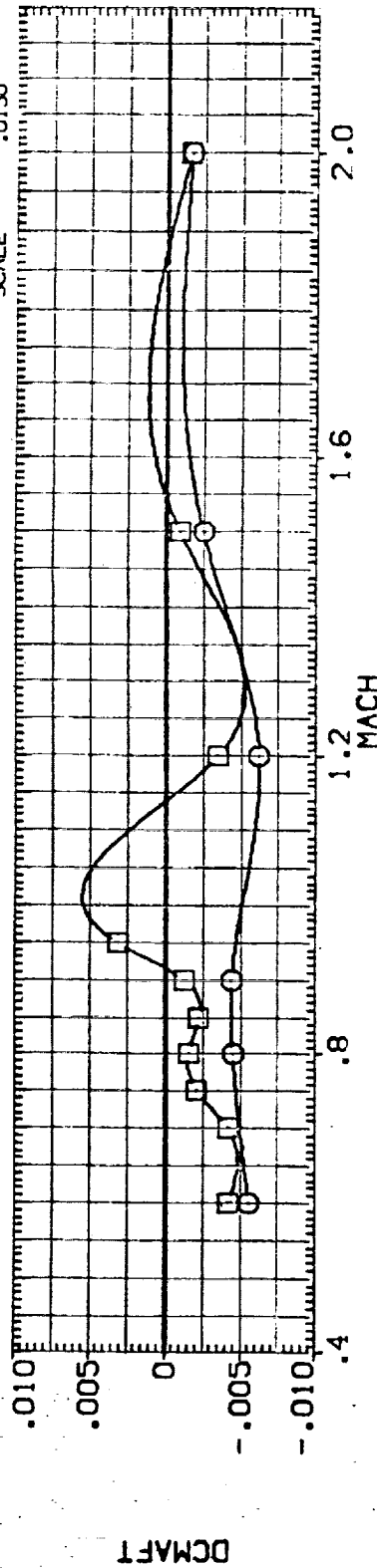


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS VB)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER012)	ARC 66-709 0A59 0A11A-(RS VB)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

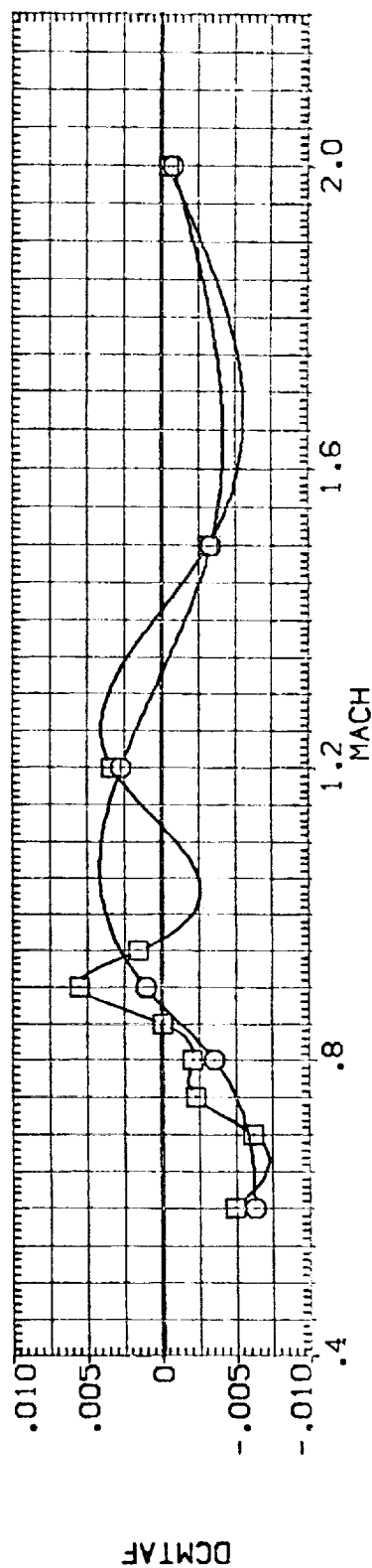
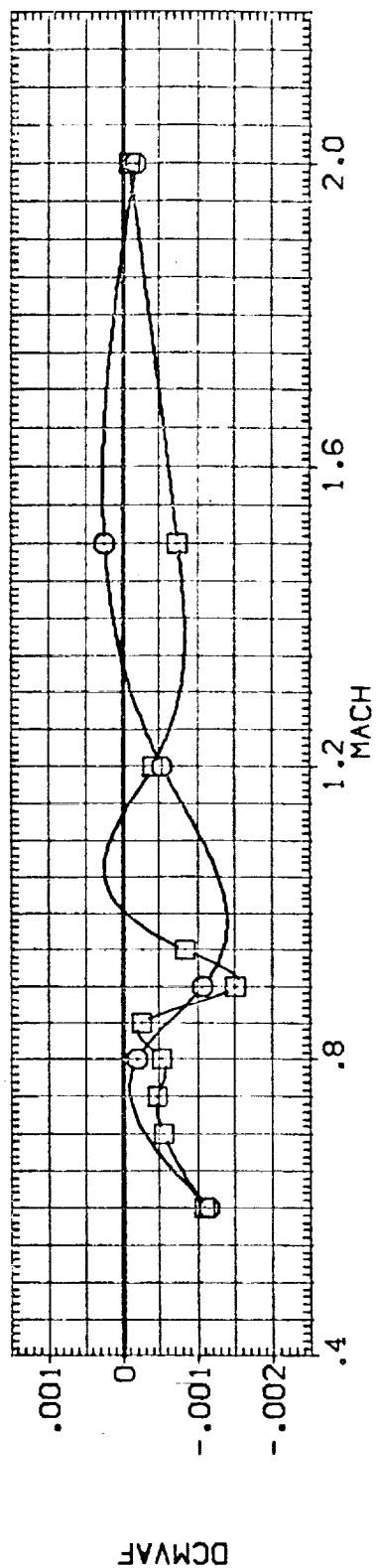
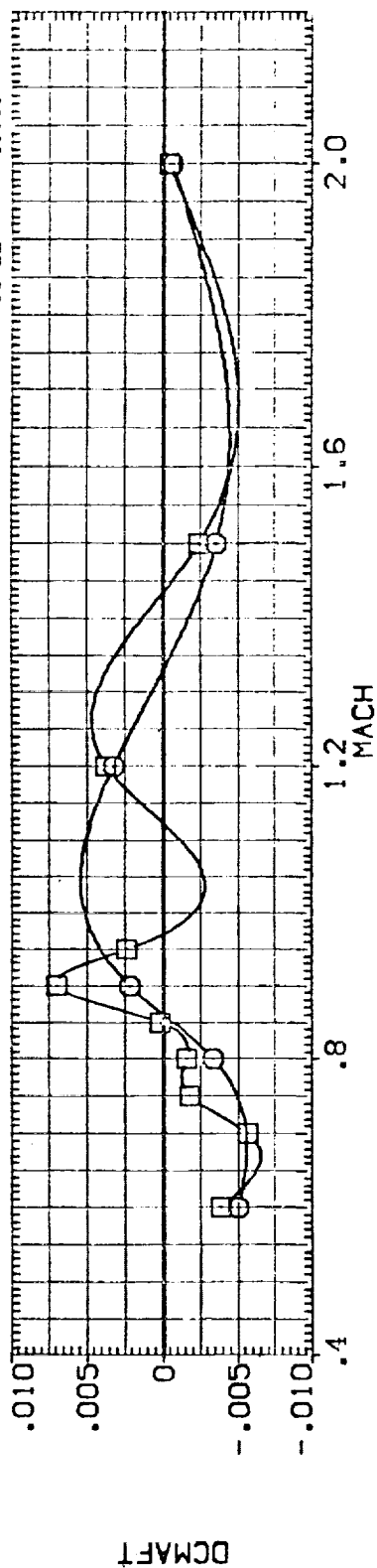
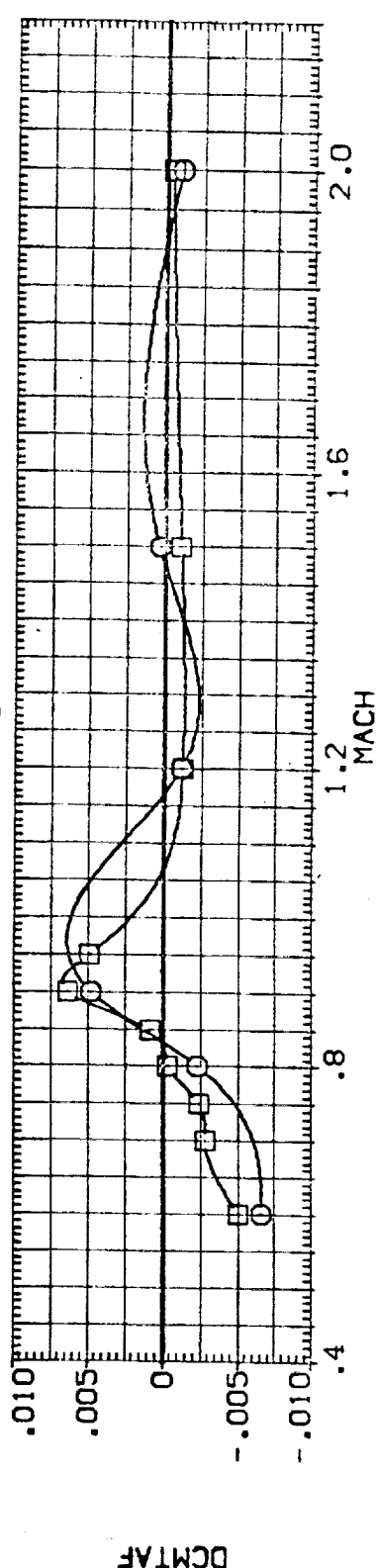


FIG. 9 PITCH TARE DATA COMPONENTS

(C)ALPHA = 10.00

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150



CD34/PHA = 14.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (VER009) [ ] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT  
 (VER012) [ ] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP  
 .000 .000 -11.700  
 .000 .000 -11.700

REFERENCE INFORMATION  
 SREF .6053 SQ.FT.  
 LREF .5935 FT.  
 BREF 1.1710 IN.  
 XMRP 12.6255 IN.  
 YMRP .0000 IN.  
 ZMRP -.3750 IN.  
 SCALE .0150

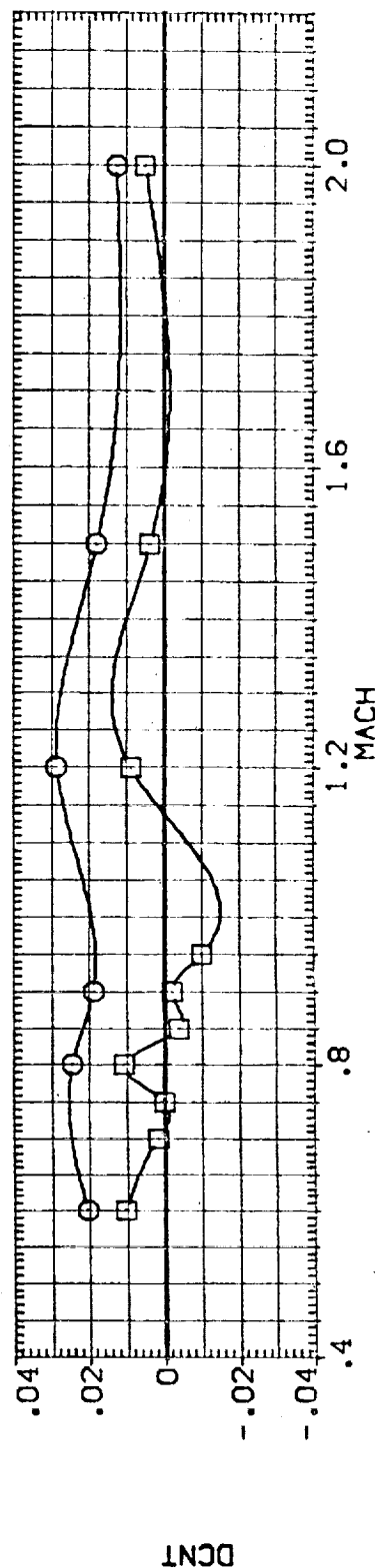
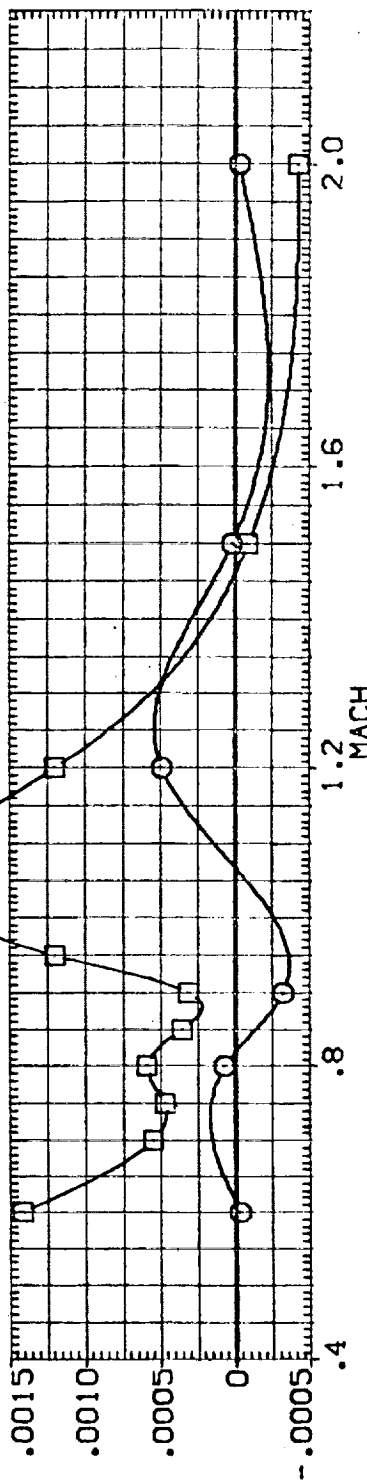
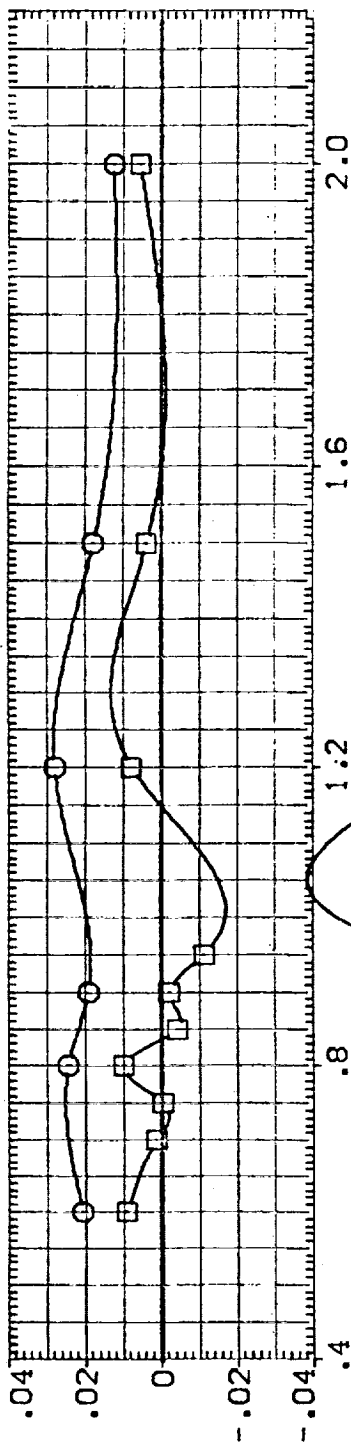


FIG. 9 PITCH TARE DATA COMPONENTS

(ALPHA) = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER009)	ARC 66-709 OAS9 OAL1A-(N24 R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER012)	ARC 66-709 OAS9 OAL1A-(R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					XREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

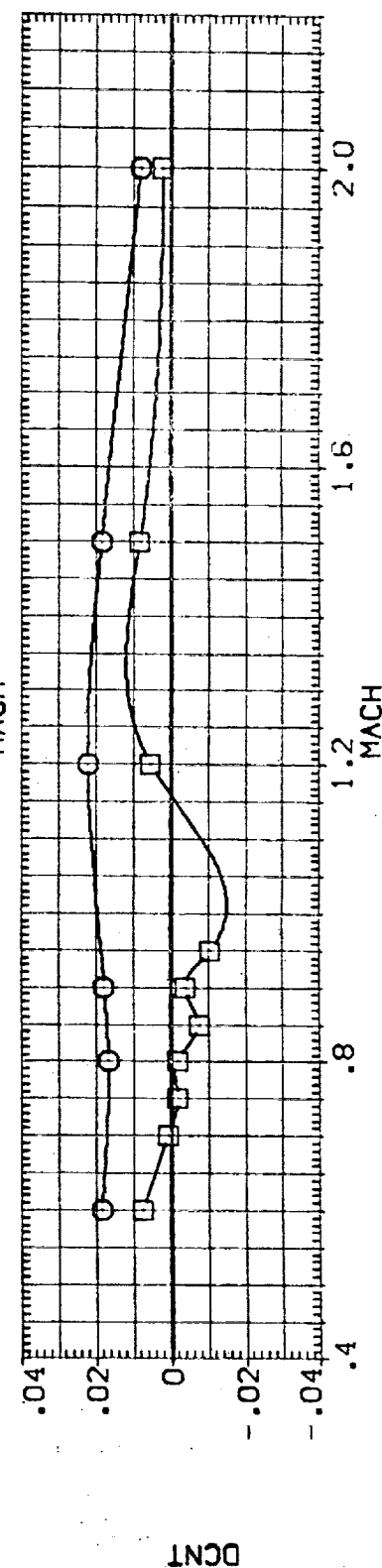
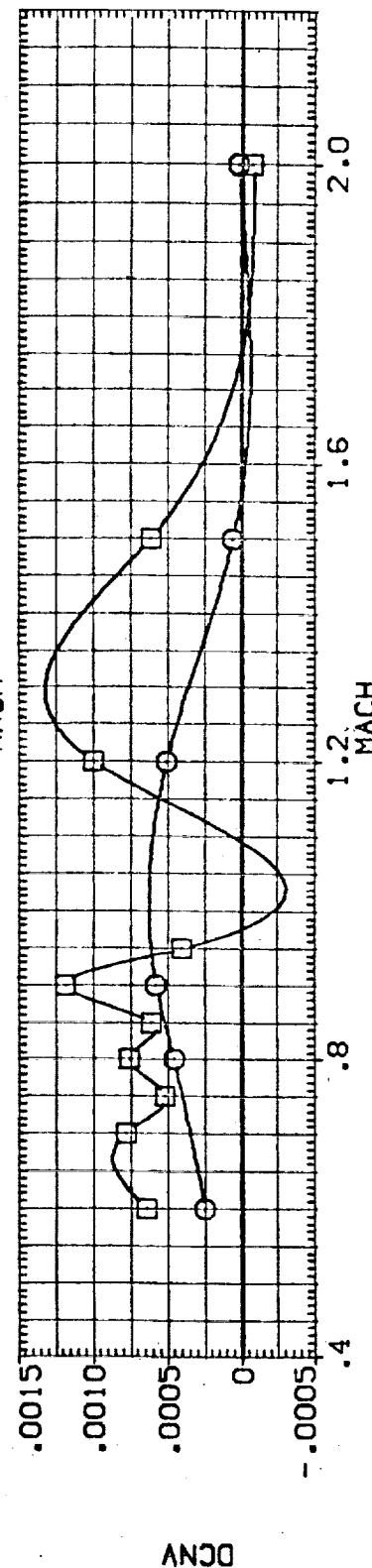
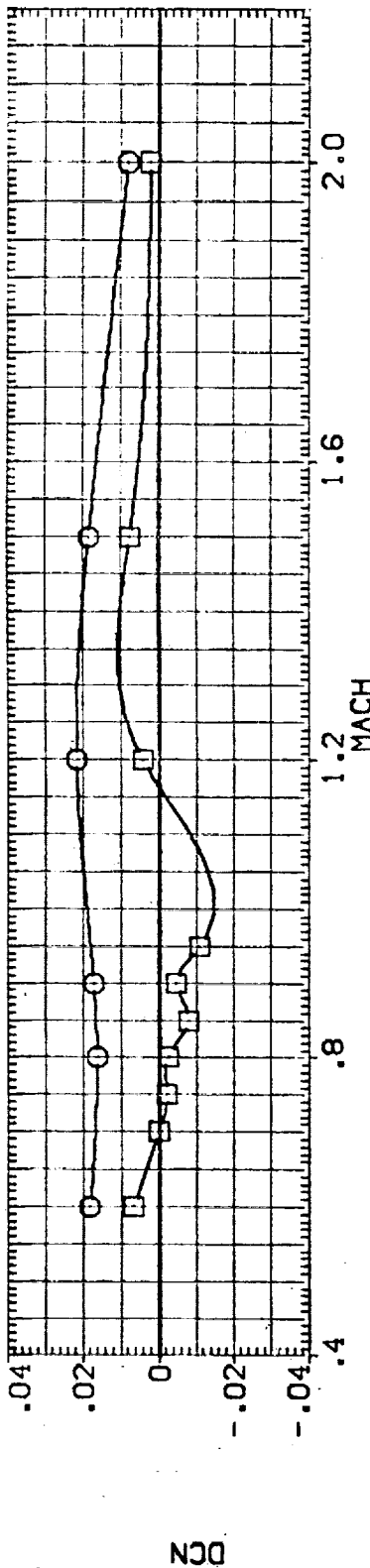




FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VER009)  ARC 66-709 D459 D411A-(N24 RS V8)+STRUT

(VER012)  ARC 66-709 D459 D411A-(R5 V8)+STRUT

REFERENCE INFORMATION

SREF .8053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

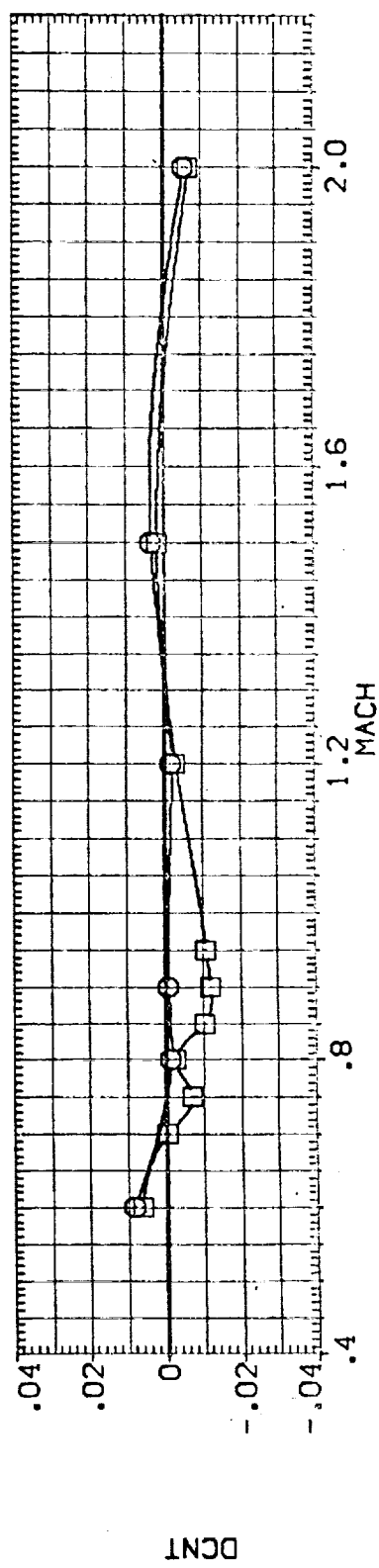
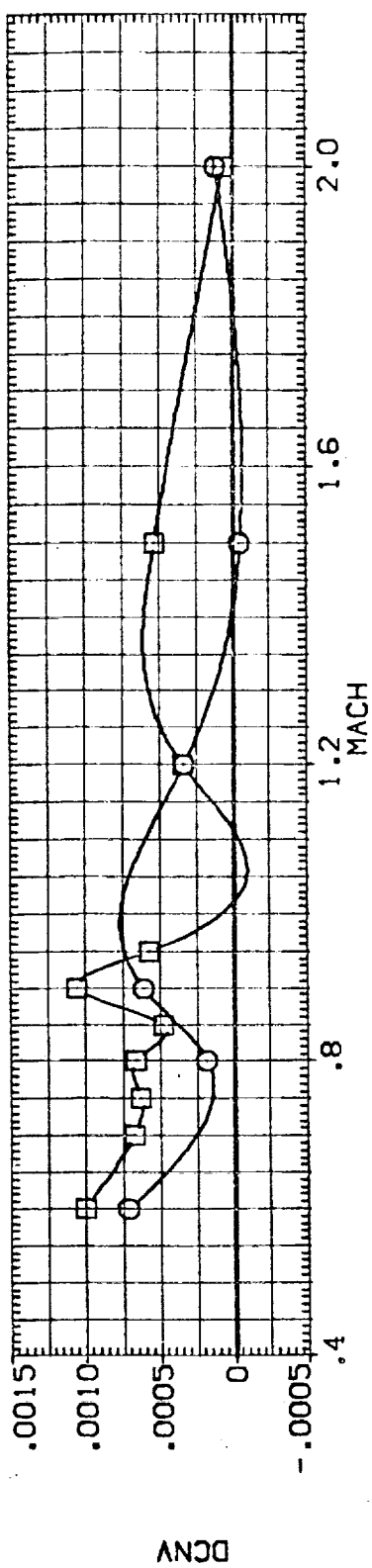
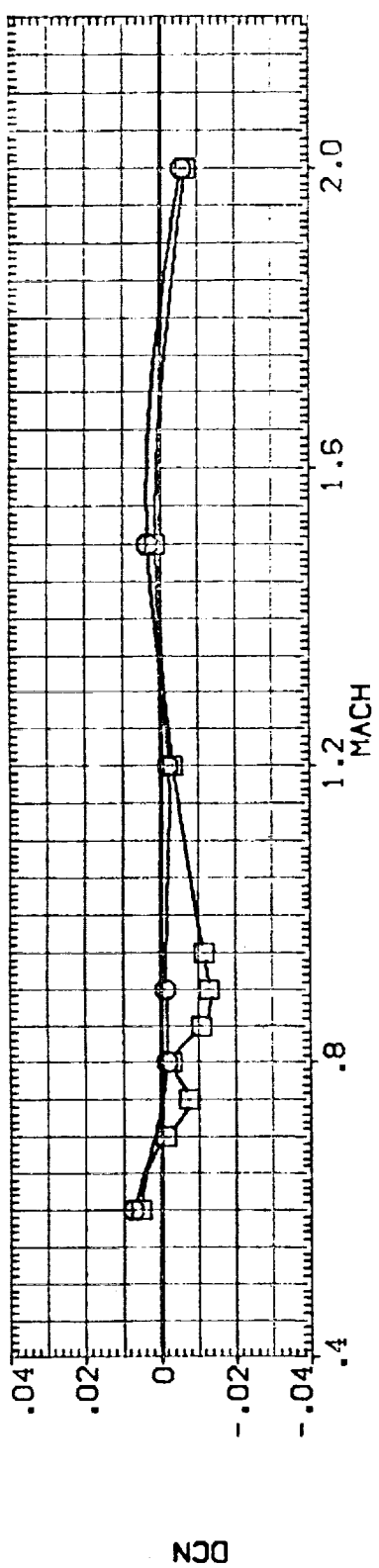


FIG. 9 PITCH TARE DATA COMPONENTS

(C)ALPHA = 10.00

DATA SET SYMBOL: (VER009)  
 CONFIGURATION DESCRIPTION: ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT  
 (VER012) ARC 66-709 DASS DA11A-(RS V8)+STRUT

BETA: .000  
 ELEVON: .000  
 BDFLAP: -11.700

REFERENCE INFORMATION:  
 SREF: .6053 SQ.FT.  
 LREF: .5935 FT.  
 BREF: 1.1710 IN.  
 XMRP: 12.6255 IN.  
 YMRP: .0000 IN.  
 ZMRP: -.3750 IN.  
 SCALE: .0150

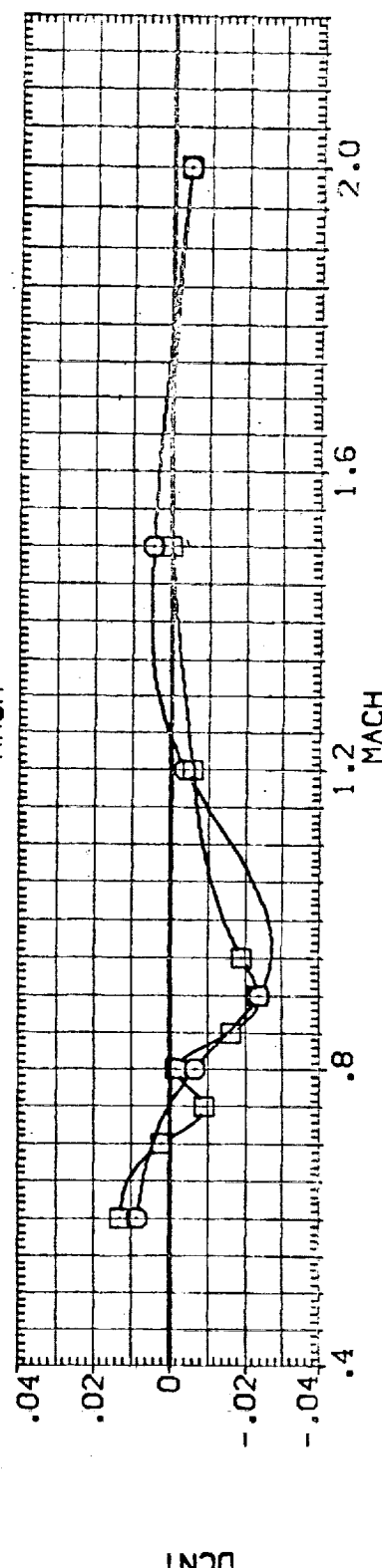
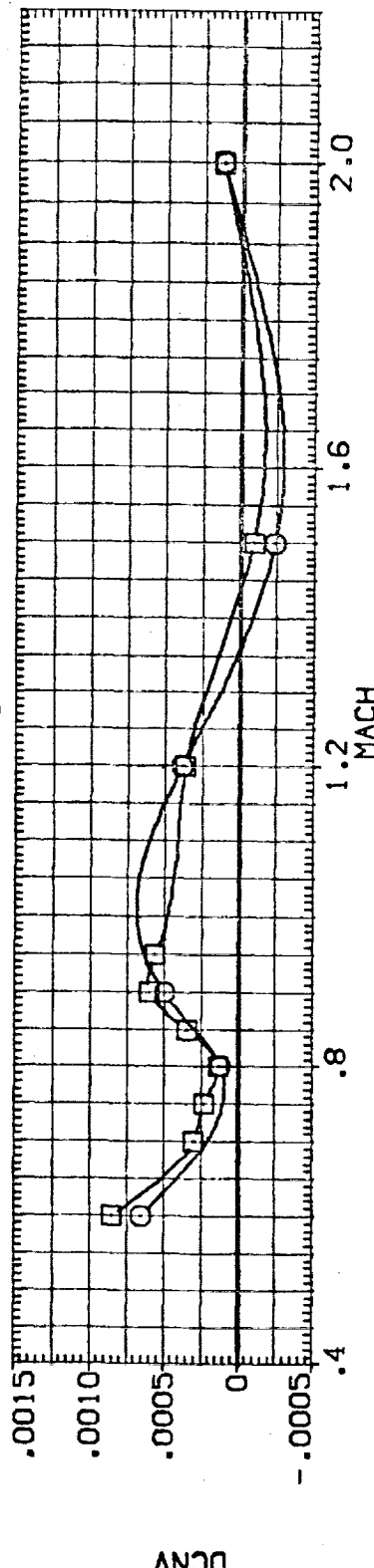
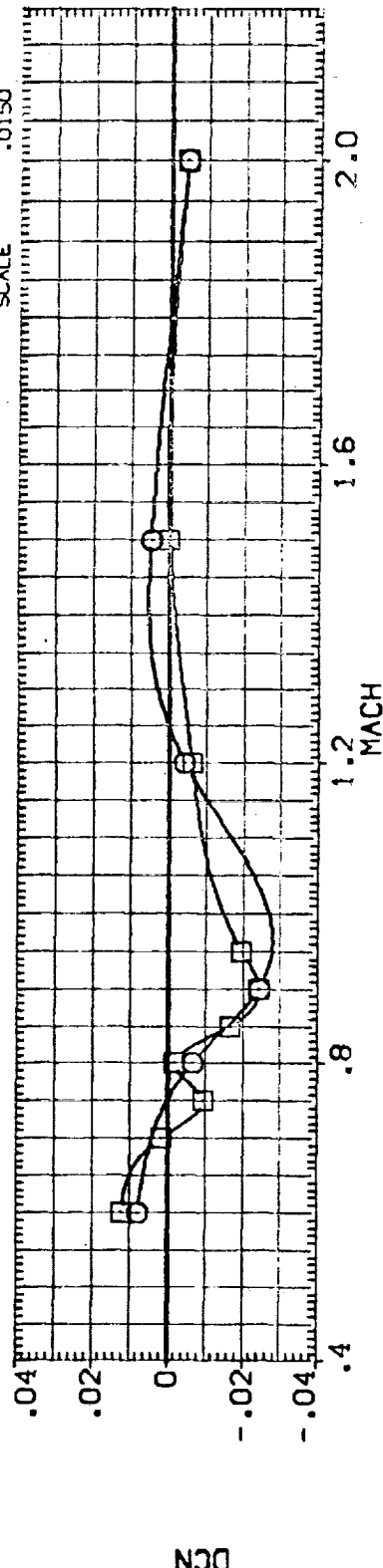


FIG. 9 PITCH TARE DATA COMPONENTS

( $\alpha$ )ALPHA = 14.00